Marjorie and C. H. B. QUENNELL

EVERYDAY LIFE 1N ROMAN BRITAIN







EVERYDAY LIFE

ROMAN BRITAIN



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FIG. I. THE MIRROR

THE EVERYDAY LIFE SERIES — III

EVERYDAY LIFE

Written and Illustrated by MARJORIE & C. H. B. QUENNELL Authors of "Everyday Things in England"

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"And I would lay this charge on his daughter and his wife—so to reverence the memory of their father, and husband, that they revolve within them all that he said and did, and to cherish the form and the fashion of his soul, rather than of his body ; it is not that I would forbid the making of statues, shaped in marble or bronze, but that as the human face, so is its copy—futile and perishing, while the form of the mind is eternal, to be expressed, not through the alien medium of art and its material, but severally by each man in the fashion of his own life."

> TACITUS, From the Epilogue of Agricola.



NOTE TO THIRD EDITION

I N the Second Edition of this work the introduction was rewritten by the late C. H. B. Quennell, and Mr. Edmund Vale, author of a number of topographical and antiquarian books, contributed Chapter V, on Roman remains in Britain. There were also additions and changes to the illustrations. For this Edition the publishers are pleased to have the helpful co-operation of Mr. J. E. Manchip White, who has compiled the chronological outline of the Roman occupation, while the map has been redrawn in clarified form and the bibliography simplified. The chief recent development in Roman-British archæology has been the application of air photography, and a note on this has been illustrated by some aerial views of camps.

Summer 1951.

THE PUBLISHERS

ACKNOWLEDGMENT

FIG. 106 is reproduced from a photograph by Mr. M. A. Fenwick, of Sunderland. FIGS. 107 and 117 are reproduced from photographs taken by Dr. J. K. St. Joseph of Cambridge University. FIG. 110, an Air View of the Roman Camp at Richborough, is a Royal Air Force official photograph, and the Crown copyright is reserved.

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FIG. 2.—Girls playing Knuckle-bones.

INTRODUCTION

THE boys and girls for whom we write, may have read the *Life of Agricola*, by Tacitus, and so know the fine Epilogue with which it closes. We have given a part of this on the back of the Title-page.

Tacitus was writing of the character of his father-in-law, Agricola, and gave us at the same time a hint of what we should look for in History. If only the spirit is eternal, it is very obvious that we must make diligent search for the principles which have animated men in the past and helped them to fashion their souls. To search for motive is apt to be an arid study; political history, and its recital of how statesmen have bested their friends, and ruined their enemies, makes dull reading, unless it is inspired. There remains the possibility of judging men by their works. This was the only method in the Prehistoric periods, with which we dealt in Parts I. and II. of this series, and it is on the whole a very safe one. It seems a little far-fetched to suggest that one may judge character by brick-bats, and the fashion of the soul from house-furnishings, yet this is the method we wish to adopt.

In dealing with Roman History we shall find the historians divided into two schools, one of which will glorify the Republic, and think the Empire was all Decline and Fall; the other will thrill at the Augustan Age. It is safe to predict, that to whichever school we attach ourselves, or even if we form an opinion of our own, we shall leave off with a feeling of great respect for the Roman sense of Law and Order.

When a nation not only makes Laws, but agrees to keep them, it is a sign of a very advanced state of civilization. With this Roman power of administration, we shall note great developments in the art of Town-Planning, Building, and Civil Engineering. Yet all this wonderful structure came tumbling down, because the fashion of the Roman soul was too material.

The period dealt with in this book is vital to us because the introduction of Christianity into Great Britain dates from the Roman Occupation, and conflicted in a thousand ways with the Roman conception of life and living.

The Roman was tolerant. Cæsar writing of the gods of the Gauls, said they were much the same as other peoples, and the Romans, as a proud and conquering race, were not alarmed at the preaching of the disciples of an obscure Jew who had been crucified in Palestine. They persecuted the Christians, not so much for saying that man was made in the image of God, but for political rather than for religious reasons. It is almost impossible for us, with centuries of Christian teaching behind us, to estimate the first effect of the teaching of the Apostles. We know the teaching, even if we neglect it, but to have heard the Sermon on the Mount, as a Roman, for the first time, must have been an extraordinary experience. If he believed the teaching, then his confidence as a Roman was gone, because Christianity was the negation of the Roman way of living, and contributed to its downfall.

Ambrose, Bishop of Milan, made Theodosius the Emperor,

INTRODUCTION

in A.D. 390, divest himself of the purple and do public penance for a massacre carried out by his troops. Power had passed to the Church.

In the wide region of Statecraft, we can watch the efforts of man to govern himself. The Hill Camps we saw in Part II. could only have been formed under some system of tribal government, and in the historic period, we find Kings and Empires, Tyrannies, Democracies, and Republics, tried one after the other, in man's search for the proper method of living.

From the time of the Roman Occupation, so far as Europe was concerned, Christianity was destined to become the great force by which men set the "fashion of their souls"; it civilized men again after the dark ages following on the fall of Rome, and inspired the Crusades. Churches were planned to be cruciform, and the figure of Christ was cut in stone, and glowed in the jewelled glass of a thousand windows.

Again, to-day, Western Europe finds itself confronted with crisis. A period of history seems to have closed in 1914, and the future is uncertain. After the cruelty of the War, men are ashamed, and strive feebly, once again, to live their lives in accordance with Christian teaching.

It follows, then, that we are in sympathy with all the people, who, since A.D. was used in the Calendar, have been confronted with similar problems of life and death, of joy and sorrow, and of how life is to be made sweet and wholesome.

The statesman reads History to find how man can be helped to this end, and his trouble is the same as ours, how to make the dry bones live. There are times of enlightenment.

Our readers will sometimes have seen visions, and dreamed dreams. There are days, or better still nights, when the tired body is sloughed off, and the brain rides untrammelled, and we understand the meaning of things. The time curtains roll back a little on one side, and we have a walking part in the scene; we may not speak to the principal actors, but we are close to them; we catch the fragrance of Wolsey's orange

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as he passes along, and the figures of History become, instead of names, men and women of flesh and blood.

We begin to form certain opinions of our own; one period may seem brave and cheerful, another dark and gloomy. For this reason, perhaps, History has been very much concerned with the doings of great men ; even the terrible villains serve the useful purpose of shadow in the picture, and throw into relief the brightness of the heroes. If these have been rather dispensers of Death, than saviours of life, like Pasteur, then it is our own fault for having worshipped at the wrong shrine. This question of the atmosphere of History is worth testing by our own experience; this may be limited, but we can try to find out why a particular school, or form, or term, or individual, will leave an impression on our minds. The importance of History, or tradition, is that it gives us a standard against which we can measure our own effort, and as History is concerned just as much with work as war, so work is concerned with the doings of untold myriads of individuals much the same as ourselves.

We should like to acknowledge our indebtedness to Mr. Reginald Smith, F.S.A., Deputy-Keeper of the Department of British and Mediæval Antiquities at the British Museum, who kindly read through our MS. and gave us many valuable suggestions thereon.

Our thanks are also due to Mr. Alfred J. Taylor for information on the Great Bath at Bath, and to Mr. Batsford and Mr. Haggis for their work in publishing. As well acknowledgment must be made of the great assistance we have gained from the survey of Silchester made by the Society of Antiquaries and published in Archæologia, vols. 52-62, without which we could not have made our book.

MARJORIE AND C. H. B. QUENNELL.

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EVERYDAY LIFE IN Roman Britain

CHAPTER I

THE HERITAGE OF ROME

E come now to one of the most interesting periods in our history, in which the greatest changes were to be effected in our Everyday Life. For some 367 years, Britain, which was not yet England, was to form part of an Empire which stretched from Babylon, around both sides of the Mediterranean, up through France to our country. We were to be quite suddenly familiarized with the best which the older European civilization had to offer in the way of Science and Art; and all this wealth of ideas was to be thrust on us when we had not advanced much beyond the stage of being turbulent tribesmen.

Let us look back a little and find out what the Britons were like before the Claudian Conquest of A.D. 43. In Volume III. of this series we finished up with the Glastonbury Lake Village. Here, on an islet in the sedgy wastes, the inhabitants built up a foundation for their wattle and daub huts covered with thatched roofs, and surrounded these with a stockaded fence. The general appearance must have been that of an East African village to-day. It had no shape or town-plan; the huts were not set out in any regular arrangement. The whole lay-out was higgledy-piggledy and haphazard. The people were good craftsmen—could smelt and forge iron, weave, turn wood, and make pottery.

The mere fact of building the Glastonbury Lake Village in a swamp shows that the people must have been afraid, and disaster fell upon them some little time before the Roman

VOL. III.-A

Ι

Occupation. Perhaps they were attacked by the Belgic invaders, the latest of the immigrants, who began to arrive about 200 B.C., and who seem to have been of fiercer fighting breed. These Belgic invaders were skilled in working in enamels; and a wonderful shield can be seen in the Early Iron Age Gallery at the British Museum. Their burial places have been discovered at Aylesford in Kent, and the pottery found there was very good indeed.

Now think of the feelings of the early Britons as towns like Silchester, Fig. 14, began to arise in the 1st century A.D. It must have been an extraordinary experience for them to have watched one of the Roman surveyors at work, and noticed how carefully he set the town out—that it was in fact town-planned; or to see its Basilica, as Fig. 33, with its Corinthian order of architecture, rising from the ground. Or to go to Bath and see the great bathing establishment there, with its lead-lined baths, and intricate plumbing and heating work. The Britons must have heard of the doings of the Romans in Gaul, but probably, like the Queen of Sheba, had not believed, and then when they were confronted with their work, there must have been "no more spirit" in them.

Or take the roads. The two-wheeled chariots of the Britons probably kept to the high ground, and used the trackways which had come down to them from Neolithic times. The lowlands would have been too swampy. Now think of the Roman roads which we still use. We construct laboriously a few miles of arterial roads, or make a by-pass—the Romans covered our Empire with roads which all led to Rome.

Little can be known of the literature of the Britons; doubtless some Homer sang their tribal lays and tales, but no one wrote them down. Still their Celtic Myths and Legends were handed down, and becoming traditional did, in the Middle Ages, develop into a literature peculiarly our own. Against this it must be remembered that the men who arrived here in A.D. 43 were familiar with the masterpieces of Greek and Roman Literature. Cicero died in 43 B.C.; Virgil was born 70 B.C.; and Horace published his Odes 23 B.C. So the Latin tongue, which was to become a universal language, had already taken form to itself, and was to be heard in our country wherever the Romans came together.





VERULAMIUM

Dr. and Mrs. R. E. M. Wheeler have, during the last few years, excavated parts of the Roman City of Verulamium (S. Aıbans), and this work has led to a renewed interest in Roman Britain. A Summary of these excavations has been published for 6d. Here we are concerned with the later excavation of the Roman Theatre of Verulamium-the only one of its kind in Britain. As we hope all our readers will visit this theatre, it may be as well, before so doing, to study the lie of the land on a map. The Roman Watling Street ran straight through the Roman Verulamium, on its way from S. Stephens to the south of S. Albans on to Redbourne, and part of it is now the entrance drive to Gorhambury. So it will be well to steer for S. Michael's Church, about half a mile to the west of S. Albans. Here we shall be in the middle of the old Roman City, in fact, the Vicarage of the Church is built on the site of its Forum, and close by is the theatre. Lord Verulam very kindly allowed it to be excavated in 1933-34. and most generously provided the funds.

Fig. 4 shows a reconstruction of the theatre when first built about A.D. 140; it must be taken with a grain of salt. The plan at the side shows the central Orchestra, about 80 feet in diameter, and surrounded by a wall. The outer wall, with buttresses, formed the retaining walls for the earth banks, made by sinking the Orchestra below the general level. The people sat on wooden seats on the earth banks, and these were reached from external stairs. There were passages down to the Orchestra from the outside, and over two of these may have been seats for the notables. The stage occupied only about 48 feet of the perimeter of the Orchestra, and behind it was the dressing-room for the actors.

The first thing to be remembered is that this is the only Roman theatre in Britain; and second, that it is more Greek than Roman in plan. Miss Kenyon, however, who has written a very good handbook which can be bought on the site for 6d., points out that similar theatres were built in Gaul. So we will present our readers with several knotty problems. All theatres date back to the circular threshing floors, on which the ancient Greeks danced in honour of Dionysus, the god of the vine, and fertility, when he had given them a good harvest—that is why the central space is called the Orchestra, because it comes from the Greek word to dance.



FIG. 5.-The Great Stairway at Knossos.

In the 6th and 5th centuries B.C. the Greeks began to produce plays, and so a stage was introduced for the actors. The Romans ordinarily cut the Orchestra in half so that it was a semicircle and much more like a modern theatre. Why did they revert to the Greek type in Britain ? Again why did they put a wall round the Orchestra at Verulamium ? We are afraid that it was because the theatre there was not only used for dances and spectacles, but possibly bear-baiting. The Orchestra, in fact, was on its way to be turned into the However that may be, go and see the excavations. Pit. Another good little book by Mr. Lowther can be bought there. showing the later alterations; and then sadly enough, in the 4th century A.D., Britain became so unsettled that there was no time for plays, or even bear-baiting, and the theatre became the midden for the rubbish of a dwindled town.

When we come to the beliefs of the Britons we have more to go on. Cæsar wrote, in the Gallic Wars, of the Druidism which was the religion of the later Celtic tribes of Britain and Gaul: "The whole Gaulish nation is to a great degree devoted to superstitious rites; and on this account those who are afflicted with severe diseases, or who are engaged in battles and dangers, either sacrifice human beings for victims, or vow that they will immolate themselves. These employ the Druids as ministers for such sacrifices, because they think that, unless the life of man be repaid for the life of man, the will of the immortal gods cannot be appeased. Others make wicker-work images of vast size, the limbs of which they fill with living images and set on fire."

It is a common error to associate the Druids with Stonehenge, but this had been built nearly 2000 years before. The Romans were tolerant of the beliefs of those whom they conquered, but Druidism seems to have shocked even the Romans, until they finally destroyed it in its headquarters at Anglesey.

What makes our period for ever memorable is that the Roman occupation began soon after the Birth of Our Lord. Christ was born in Palestine, and here it was, and in Asia Minor, that the greater part of the work of the Apostles was carried out. That is the tradition at Glastonbury, that Joseph of Arimathea came there about A.D. 47, bringing with him a cup in which he had caught the last drops of Christ's Blood,



FIG. 6.-Exterior of Megaron at Tiryns (Reconstruction).

and this having been lost, the search for the Holy Grail became the great work of Arthur and his knights.

There must have been Christian legionaries, and in any case, after the Edict of Toleration in 313, they were free to worship in their own way. Figs. 22-24 illustrate the Christian Church at Silchester. From the blazing wicker images of the Druids to the Sermon on the Mount, preached at Silchester, is a revolutionary happening of prime importance to a Christian people.

In this period, then, our people were subjected to the three great civilizing influences in European Civilization—the teaching of Greece, Rome, and Christianity.

Then there is an amusing idea that the Romans arrived here in A.D. 43, and departed in A.D. 410, during which time, 367 years, they kept themselves to themselves. That is equal to a period from the early days of Elizabeth's reign to 1937.

Unless the legionary was quite unlike all other soldiers, I think we can be sure that many of them fell in love with and married British maidens; so some of us, if we did but know, may have had Roman forbears. We know one Scotsman whose profile we have seen on Roman coins.

We hope we have given enough examples to show that the Roman Occupation of Gaul and Britain was not a trivial happening, but the broad base on which, after the Dark Ages, Western Europe was able to rebuild her foundations. On p. 120 we touch on the development of Gothic and Renaissance from the memories of Rome, but this does not explain why, when the Romans came here in A.D. 43, they had so much to offer us. It is here that the romance of the period comes in. The great central fact about the Roman civilization is that by their earlier conquests they had inherited the wisdom of the ancient Near East (see p. 115), Egypt and Babylonia, the Israelites and Assyrians, the Minoans, Mycenæans, and Achæans ; the Medes and Persians had all in their time contributed to a civilization which made its supreme bid for power, and met its defeat at the hands of the Greeks at Salamis in 480 B.C. When the Romans conquered the Greeks, a great fund of knowledge, which was becoming scientific and systematic, was placed at their disposal. This was the Heritage of Rome, and explains why she had so many eggs in her basket, and such attractive fare to offer to those she conquered. Another point to remember is that in her



FIG. 7.—The Exterior of Lion Gate at Mycenæ, with Doors added.

later conquests in Gaul and Britain, Rome was treading virgin fields to which all her knowledge could be readily applied. A country may be conquered with the strong arm; but its inhabitants are only won over by the force of ideas.

It is because these ideas were so strong and universal that they have come to be regarded as classical; but, unfortunately, they are cut off from large sections of our people, because the only method of approval has been by means of a classical education, which has meant a knowledge of the Greek and Latin tongues. We are not competent to judge whether the drilling of boys and girls in these ancient languages is good for them in this Year of Grace, especially when good translations exist. What we do insist upon, however, is that no boy or girl can hope to understand the development of English architecture and everyday things, unless they know something of Greek and Roman everyday life and things. These we suggest might come first, and the literature be reserved for those who can be expected to benefit by it.

To this end we published *Everyday Things in Homeric*, *Archaic, and Classical Greece*, and are here reproducing some of the illustrations to show how Greek work influenced the Romans and us. If we begin with the popular modern subject of Town-planning, Hippodamus of Miletus laid out Piræus, the port of Athens, in the 5th century B.C. in a rectangular plan, and Alexander the Great was a town-planner. Dinocrates, his architect, laid out Alexandria (p. 16).

The Romans were not only very good planners, as we can see by Fig. 14 of Silchester, but they paid great attention to public health, and sanitation. They constructed sewers. The Cloaca Maxima in Rome can still be traced from the Forum of Nerva to its outflow into the Tiber. So far as medicine is concerned, Hippocrates, the great Greek doctor, was born as early as 460 B.C., and seems to have practised his profession as a doctor does to-day, with an outlook which was scientific and free from quackery.

The earliest scientific medical work of the Romans seems to have been *De re Medica* of Celsus, about 30 B.C. This deals with the history of medicine, diet, disease, dentistry, and difficult and dangerous operations. The Roman Bath at Bath was not only a bathing establishment but the earliest known English medical cure.





(Choragic Monument of Lysicrates).



FIG. 11.-The Siege of a Walled City in Assyria.

ARCHITECTURE

If we turn to Architecture we shall find that the Greeks gathered their inspiration from Knossos and Mycenæ. Fig. 5 shows the Great Stairway at Knossos with its columns; and Fig. 6, how the same pattern was repeated on the mainland at Tiryns, where we have the beginning of the Greek Temple. In Fig. 7, we have the beginnings of Greek Sculpture. By the classical period the Greeks had evolved their three Orders of Architecture, as Figs. 8, 9, and 10. If we turn to Figs. 27, 28, 29, and 30, we shall find that the Romans adopted their "Orders," altering them somewhat in detail, and adding one more, as Fig. 30, the Composite, which was a fusion of Ionic and Corinthian, and these Orders are still used.

All our ideas of walled cities and fortification came from the East. Rome seems to have inherited her tradition of military engineering and siege-craft from the Assyrians. Fig. 11 shows an Assyrian sculpture of 884–860 B.C., at the British Museum, howing a walled city.

The Greeks were better sailors than the Romans, and Fig. 12 shows the Greek Trireme, which served as a model for the Roman Galley; and Fig. 13, how it was rowed.

Our Christian churches can be traced back to the Roman Basilica, as we have described on p. 35. So we might go on, and there is hardly anything which we do to-day which cannot be traced back to Greece through Rome.

A very interesting day in a summer's holiday could be spent in a visit to the Glastonbury Museum, where are all the primitive things which were discovered in the Lake Village. An hour's run in the car would take us to the great Roman Bathing establishment of the Romans at Bath (Fig. 21)-an amazing contrast to Glastonbury. In the afternoon, there would be time to go to Bradford-on-Avon and see the little Saxon church there. Centuries had to pass before the Saxons were able to build even such a simple structure as this. There could be no better illustration of what the Dark Ages which followed the fall of Rome meant. From the Glory that was Greece to the Grandeur that was Rome, and then back to this simple little church. Still, out of it Gothic Architecture did develop; and then, while in Bradford, we could see The Hall there-an Elizabethan home which shows a renaissance of classical detail even more.

A bird's-eye view, or pageant if you will, of the development of English architecture, and all to be seen in one day,



ROMAN OCCUPATION

in one small corner of England, by those who have the eyes to see.

We think we are right in saying that in the Roman Occupation of Britain we are dealing with an extraordinary period of our history.



FIG. 13.-How the Trireme was rowed.

CHAPTER II

SILCHESTER

ALLEVA ATREBATUM, Calleva (the town in the wood) of the Atrebates, shown in Fig. 14, was planned on regular symmetrical lines. Silchester, as we call it now, was Town-planned, and here for the first time we meet the chequer-board type of planning in this country. It presents a marked difference to the plan of Glastonbury Lake Village, which we saw in Vol. II. Fig. 65; there we had a haphazard arrangement, with less sense of order.

If we try to trace the evolution of the chess-board type of plan, we are led back from Rome to Greece, and the work of Alexander the Great. He was a great Town-planner, and his influence can be traced in the design of the cities of Asia Minor. The straight streets commended themselves to the soldier, because he could more easily maintain control than in crooked alleys. In Roman times the soldier was much more than a mere fighter; he was, in fact, the handy man of the day, and could plan a town, build walls, and carry out engineering works. When Roman soldiers retired it was a practice to gather them together, and grant them land, as a reward for their services; then they built a Town, and became a bulwark to the State; Timgad in the province of Numidia, in Roman Africa, was such a city. In more ways than one the power of Rome depended on its legionaries, and we like to think of them, when their fighting days were over, building and carpentering, and showing the natives that their strong arms were attached to cunning hands.

The chequer plan reached Italy in one other way, which is interesting. In Vol. II. page 84, we described the Swiss Lak : Dwellings, how, as the lakes became over-populated, the people moved downhill, and built for themselves strange dwellings called Terremare. Fig. 15, of Castellazzo di Fontanellato, W. of Parma, illustrates one of these. It is of the Bronze Age; an area of about 30 acres is surrounded by a high bank, around which has been diverted a river to form a ditch. The streets inside are planned with regularity, and an inner citadel is surrounded with water. Here, between 1400 and 800 B.C., is the chequer plan, made by a people who originally found their way down from the Danube plains, as did the Achæans of Ancient Greece, and had the same ideas of Town-planning.

It is quite evident that the Romans, wherever they went for their inspirations, were accomplished surveyors. No matter how well a road is made and finished, it has to be begun by some one, who determines its direction, and settles the gradients; a town cannot be laid out, until men come along and peg out the lines of its streets, and walls. This brings up the question of mensuration. The surveyor must instruct the constructor; he must say, for example, "Here is the main street of your town, it is so many somethings wide."

In these days of plenty, we are accustomed to travel about with bulging pockets, full of rules, rods, and tape measures, but this was not the case in the days long before Rome, so men used something which they could always be sure of having with them, to wit, their feet, and by Roman times, this habit had passed from Custom into Law. Vitruvius, writing in the time of Augustus, said : "It is worthy of remark, that the measures necessarily used in all buildings and other works, are derived from the members of the human body, as the digit, the palm, the foot, the cubit." The normal Roman foot was 296 mm., or a full $11\frac{5}{8}$ English inches. There were 16 digits, and 4 palms in the Roman foot, and the cubit was 6 palms, or $1\frac{1}{2}$ feet.

Five Roman feet went to the *passus* (pace), and 1000 of the latter to the mile.

In the same way the numerals have been derived from the hand with its five fingers. The Roman V is thought to have been simplified from a drawing of the hand meaning 5. IV would mean the hand less one finger, or 4; and VI the hand plus one or 6, and X a double hand or 10.

When it came to measuring land, the Roman thought ot the feet of his oxen rather than his own, so the unit he used was the iugerum, or yokeland; the oxen ploughed a furrow 120 Roman feet long, before they wanted a rest, and 120 by 120 formed the actus, and two square actus, or 120 by 240 was the day's ploughing. and this became the iugerum, which was the unit of the Roman land surveyor. The Roman dealt in land in blocks, which he could size up in his mind, and readily estimate the crops which could be grown. Mensuration, as most other subjects, is full of interest, if you

VOL. III.-B



FIG. 14.-Silchester (Calleva Atrebatum).
ROMAN MEASURES



FIG. 15.—Town-Planning in the Bronze Age.

go to work to discover it. Here in England, our furlong is a furrow long, equal to $\frac{1}{8}$ of a mile, or 40 rods, poles, or perches; this rod unit of $16\frac{1}{2}$ feet has played a great part in English mensuration, and we shall have something to say of it later on.

Below we have set out in tabular form Roman measures :

Feet.		Gradus	•	Passus.	Dee	cempeda.	Actus.	Iugerum.	Stadium.	Mile.	
21/2	=	I									
5	=	2	=	I							
10	=	4	=	2	=	I					
120	=	48	=	24	=	12	= I				
240	=	96	=	48	=	24	= 2	= I			
625	=	250	=	125					= I		
000	=	2000	=	1000	=	500				· = 1	

and the Roman mile was just over 1618 English yards.

5

In founding a Roman city, the plough was used to trace the outline of its walls, and it was inaugurated by the Augur, who consecrated the Templum, or centre square; here the kardo, running from N. to S., was crossed by the decumanus from E. to W. The four quarters of the town, around these main streets, were divided up into rectangular blocks, of which the iugerum was the general unit.

The surveyor, who was responsible for the lay-out of the

SURVEYING



FIG. 16 — Roman Surveyors (Agrimensores so or Gromatici) using the Groma.

city, used an instrument as Fig. 16, called the Groma ; this consisted of a staff, with a cross turning on its top. from the ends of which small plummets were suspended by cords. These plummets came at the corners of a square, and it was the cords by which they were suspended, that were used to sight the lines the surveyor wished to set out. His method was to send his assistants to hold rods which were stuck in the ground, where they were sighted as being on the line. It is obvious that the square line the Romans liked so much, could be set out very readily. Once the lines were set out,

a 10-foot rod was used, and 12 of these gave the actus of 120 feet. Surveyors to-day use an instrument founded on the Groma, which they call a Cross Head Staff.

Silchester (Fig. 14) was not a Roman municipality. There were only five of these in England : Camulodunum (Colchester), Verulamium (S. Albans), Lindum (Lincoln), Glevum (Gloucester), and Eburacum (York). These were probably responsible for the government of the country immediately around them. There were Imperial domains, as the lead mines of the Mendips, and the remainder appears to have been organized on a Cantonal system, corresponding to the British tribes, with the chiefs as magistrates. Silchester must have been the headquarters of the Atrebates. The town was rebuilt in its Roman form, between A.D. 70–80, and, situated as it is (Fig. 3), on the top of a rounded hill, in pleasant country, and at the intersection of busy roads, must have been a place of importance.

When we consider its plan, we shall find that its chessboard regularity is tempered with a certain calculated irregularity, and in some ways it is as wayward as a modern garden suburb. It looks as if its Atrebatan designers, after accepting the regularity of the streets, distributed the houses, on the principle of currants in a bun; just anyhow. They did not want their town to be wholly Roman, but Romano-British, and this is what they achieved.

We will leave our bird's-eye view, and, by a stretch of imagination, come down to earth, and believe that we are living in Roman times, and that we are paying a visit to Calleva Atrebatum. We approach the town by the road from the N., and on the outskirts we pass a funeral party going to bury its dead, as was the Roman custom, without the walls at the side of the road. Close up to the town, at 1, Fig. 14, is a ditch and bank, the remains of the old British earthworks, which had surrounded the tribal stronghold long before the days of the Romans. It may well be that the place was inhabited when Badbury Rings (Figs. 28 and 29, Vol. II.), and Maiden Castle, near Dorchester, were busy centres. Like many British earthworks, these banks and ditches follow the contour lines of the hill, and are not square. These British earthworks influenced the lay-out of the stone walls, which were added at some later date than the rebuilding in Roman times; thus the streets are Roman in their chequer pattern, and the walls are British in their plan.

As we pass along outside the walls, we notice that they are about 20 feet high, built of concrete rubble, and faced with flints; they are strengthened with bonding courses of ironstone, and finished at the bottom with chamfered stone bases. There are rampart walks on the tops of the walls. with embrasures through which the watchmen can see the approach of strangers; at the base of the wall is a ditch 12 feet deep and 80 feet wide.

When we are inside the walls, we shall find that these are 9 feet 6 inches broad at base, lessened by set-offs inside to about 7 feet 6 inches at the top, and at about 200 feet intervals the full thickness of the wall is carried up, like a wide buttress, and on these are placed watch towers. To further strengthen



the walls, a mound of earth has been placed against them inside.

By this time we have arrived at the West Gate, and Fig. 17 shows its ap-The town, or pearance. curtain, walls are curved inwards on to two towers. and so take the form of bastions, from which the bridge over the ditch can be raked. Between the towers are double archways of 12 feet span, at I on plan; at 2 is a guard-room, with a lock-up behind it at 3. The other side of the plan is at the rampart level, and shows how the guard can pass from the top of the walls at 4, through the towers at 5, and over the archways at 6.

If we now pass through the gate, it may be as well to consult Fig. 14, and imagine that it is the plan of Calleva Atrebatum, scratched in a tablet which



FIG. 18.—Plan of Baths at Silchester.

has been lent to us by the keeper of the gate. We will follow the road which goes due east, until it crosses another running from the North to the South Gate, and here we will turn to the right. Almost immediately, at 2 on the plan, we shall come to a building, which by its size shows itself to be a place of importance, and on inquiry we find that it is the Basilica; however, we will defer our inspection of the city until we have got rid of our luggage and found an inn at which we can stay, and by consulting our map we see that there is one a little way ahead at 3.

The Inn turns out to be a place rather like the house we are describing on page 42, except that it has more accommodation, and has baths attached. We hear that there are

INNS

larger baths, at 4 on plan; so after leaving our bags at the inn, we go on to these, so that we may refresh ourselves after our journey.

Fig. 18 shows the plan of the building we found there. We enter a courtyard with a colonnaded walk around it, and this leads into the Apodyteria, or dressing-rooms; here we take off our clothes and give our valuables into the care of an attendant. We then go into the Frigidarium, or cold room; here we see men who have finished their baths, plunging into the cold bath, so that they may not catch cold on going into the open air; our readers know, of course, that the Roman bath consists of going into a series of rooms, heated with hot air, and this heat induces very generous perspiration.

We next enter the Tepidarium which is fairly warm, and then the Caldarium, which is really quite hot; here there is a bath of hot water,

and at one end a basin of cold water, with which to splash oneself before passing out. It is here that we are anointed with oils, and our bodies massaged and scraped with strigils, as Fig. 19; then we, in our turn, pass back to the Frigidarium and have our cold plunge, and sit about to watch the goings-on. Seneca, the philosopher, writing about A.D. 57, gives a better idea of life as seen in a Roman bath than we can. He said: "I am living near a bath: sounds are heard on all sides. Just imagine for yourself every conceivable kind of noise that can offend the ear. The men of more sturdy muscle go through their exercises, and swing their hands heavily weighted with lead: I hear their groans when they strain themselves, or the whistling of laboured breath when they breathe out after having held in. If one is rather lazy, and merely has himself rubbed with unguents, I hear the blows of the hand slapping his shoulders, the sound varying according as the massagist strikes with flat or hollow palm. If a ball-player begins to play and to count his throws, it's all up for the time being,"-then follows an amusing note, "or there is some one in the bath who loves to hear the sound of his own voice ; . . . but the hair plucker from time to time raises his thin shrill voice in order to attract attention, and is only still himself when he is forcing



BATHS



FIG. 20.—Baths at Silchester.

cries of pain from some one else, from whose armpits he plucks the hairs."

Fig. 20 shows what the exterior of the Baths at Si¹chester are like, and for a small town they are fine buildings, unless, of course, they are compared with those at Bath, or Aqua-Sulis. Here the hot springs of healing waters have been conducted to great basins in which the people can bathe, and grouped around these are the ordinary rooms of a Roman bath as at Silchester. We give a sketch (Fig. 21) of the Great Bath, taken from the E. end. So far as we can judge this bathing-pool must have been open to the sky, when it was first built, with a colonnaded walk around, as at A on the sketch. Later it was roofed in with a vault made of concrete reinforced with hollow tiles, and to carry this, large stone



FIG. 21.—The Great Bath at Bath

piers were added at B. By cross vaults the architect contrived that these piers at B took all the weight of the vault, adding arches at the back to take up any outward thrust; these were carried on piers, one of which is shown at C.

The parts remaining of this vault at Bath, give the best example we have in England of the Roman use of concrete reinforced with brickwork. In Rome itself the baths of Diocletian and Caracalla, the Basilica of Constantine, and the Pantheon, are examples of vaults which are wonderful in their immense scale and permanence. It is very doubtful if any of the modern concrete work. reinforced with steel,



FIG. 22.—Plan of Christian Church at Silchester.

will last even one hundred years against the insidious rust. After our bath, being in good order, we go to the church, there to return thanks for our safe journey, and we find that the citizens of Calleva, very soon after the Edict of Toleration of the Emperor Constantine in 313, set about building themselves a Christian church. This is shown at 6 on Fig. 14.

The plan of the church is shown on Fig. 22, and is of what is known as the "Basilican type," this means that it resembles the Basilica (Fig. 33). The points of resemblance are, that the main body is divided into a nave, with an aisle on each side, and the tribune of the basilica has become the apse of the church. The plan shows the beginning of Transepts, which give the church its cruciform, or cross-like character.

It is worth considering how this came about. Take a sheet of clean paper, and try to design anything you like; you may start with the idea that you are going to be wildly original, and then you will discover, that originality consists of minute variations and improvements on what has gone before, and you will be forced to go back to something you know as a base on which to build. This is precisely what the first builders of Christian churches did; they started by adopting the basilica, because it was the building in which they had been used to assemble; the interest to us is, that the little church at Silchester is the fore-runner of our glorious Gothic cathedrals.

We must remember that the Society of Antiquaries, who excavated Silchester, only discovered the foundations of the building; the reconstruction built on these is our own. We will enter the church, and our first impression, as Fig. 23, is one of surprise at the tiny size of the building; the nave, including the apse, is only 29 feet long by 10 feet wide; the aisles are 5 teet wide. The nave has a mosaic floor, the tesseræ of which are red tiles 1 inch square; where the altar stands is a very beautiful panel of chequers in black, red, and white, and this part of the floor is not raised above the nave.

Let us now leave our imaginary walk and look at the drawings. Fig. 24 is a reconstruction, built up on the plan about which there is no doubt. For the superstructure, we have gone to Rome. After Constantine's Edict of Toleration, church building went forward, and the Christians had no need to lurk in byways. It is to this period that we can assign the five patriarchal basilicas, of S. Peter, S. John Lateran, S. Maria Maggiore, S. Paul, and S. Lorenzo, beyond the walls at Rome. The old basilica of S. Peter was pulled down at the end of the fifteenth century to make room for the present church, and the others have been altered many times, yet sufficient remains to show what the early churches were like. Constantine is supposed to have helped dig the foundations of S. John Lateran with his own hands.

The Silchester church was a much simpler building; its flint walls, with tile angles outside, were plastered inside, and painted in imitation of marble.



FIG. 23.—Interior of Church at Silchester. 29



FIG. 24.-Exterior of Church at Silchester.

During mass the priest stood facing eastwards behind the altar, which was probably a wooden table.

In the larger basilican churches it was usual for the clergy to be seated around the apse behind the altar, but there is hardly room for this arrangement at Silchester, and they probably used the nave together with the choir. Men and women were seated separately in the aisles. It will be noticed that there is a very large porch, or Narthex. Here, with the doors open, were gathered the people not yet admitted to full communion.

This Narthex, in the larger basilican churches, like S. Peter's, formed one side of a square courtyard, or Atrium, which stood in front of the church. There is a splendid example at the later church of S. Ambrogio in Milan, and another delightful one at S. Clemente in Rome.

We cannot be sure if there was such a court at Silchester, but a foundation was discovered in front of the porch, with a little pit behind it, and this is thought to have been the base on which stood a laver, or labrum, where the worshippers could wash their hands; the pit having a drain connected with it. This laver may have been placed centrally in an eastern court, paved with flint pitching, of which part remains. Very little more can be said of what is one of the most interesting buildings in England, built between 313 and the withdrawal of the Romans about a century later.

S. ALBAN AND S. PATRICK

Here and there in England, smaller Christian relics of Roman date have been discovered. One of the most interesting of these is the pewter bowl in the British Museum, discovered in the well of a Roman house, at Appleshaw, near Andover, not far from Silchester. This bowl has the sacred monogram, Chi-Rho, composed of the two first Greek letters of the name Christ, as Fig. 25, engraved on its base.

There are hints, in writers of the period, of British converts to Christianity early in the third century. S. Alban was



FIG. 25. Sacred Monogram, Chi-Rho.

martyred in 304, and three British bishops attended the Council of Arles in 314, which is evidence that, by this time, the converts had organized a Church. Then we have S. Patrick, the 1462nd anniversary of whose death was recognized on 17th March 1924. by the dedication of a mosaic to his memory, in the Houses of Parliament at Westminster. S. Patrick's name was Sucat, and he was the son of Calpornius, a Roman official, who was a deacon of the Church, and whose father had been a priest. S. Patrick was born about 373, either in Dumbarton, or Glamorganshire, and was carried off by slave raiders to Ireland when a youth. Here he stayed six years, and then escaped to Gaul, whence, being trained in the Church, he went to Rome, and finally returned on his mission to the Irish about 437 or 438, where the Christians stood in need of his help.

We shall write of the influence of the Irish Church in our next book, but sufficient has been said now to show that the Christian Church in this country was not the work of Augustine only.

There were four Temples at Silchester in pre-Christian days, and these are shown at 5, Fig. 14. Fig. 26 illustrates one of these near the East Gate. During the excavations of the Society of Antiquaries, the foundations of a platform, 73 feet square, were discovered. The platform itself was $7\frac{1}{2}$ feet high, and in the middle of it stood the Cella, which was 42 feet square outside, and 36 feet inside. The drawing is our reconstruction based on this plan.

The foundations of what must have been a very beautiful and interesting Temple were discovered to the S. of the Basilica.



THE ROMAN ORDERS

The platform here had a regular 16-sided plan of 65 feet diameter. The Cella placed centrally on this was 35 feet 7 inches in diameter. with walls which were 2 feet 6 inches thick, and 16-sided externally. This left space for the Cella to be surrounded by a colonnaded walk or Peristyle, o feet 6 inches wide, and the effect must have been like the Temple of Vesta at Tivoli. or the beautiful one in the Forum Boarium at Rome.

Now that we are writing of Temples, it may



FIG. 28.— Roman Ionic Order (Theatre of Marcellus, Rome). VOL. III.—C 33



FIG. 27.—Roman Doric Order (Theatre of Marcellus, Rome).

be well to make reference to the Orders of Architecture which the Romans used in their construction. We illustrated those of the Greeks on page 11. The Romans adopted them, but changed them as they went along. The Doric, as Fig. 27, from the Theatre of Marcellus at Rome, has been used in Figs.24 and 26. The Ionic, also from the Theatre of Marcellus. was as Fig. 28. The Corinthian, from the Pantheon, Rome, was as Fig. 29; and the Composite, from the Arch of Titus, Rome, Fig. 30,

OF ARCHITECTURE



F1G. 29 — Roman Corinthian Order (Portico of Pantheon, Rome).



FIG. 30.—Roman Composite Order (Arch of Titus, Rome.)

was, as its name shows, composed of a fusion of Ionic and Corinthian. These Orders, together with the Arch, were the raw materials with which the Roman architect worked, and his finished products, in the way of buildings, are the main inspiration of his successor of to-day.

If it had been possible for us to walk the streets of Roman Silchester, as we at first pretended, after breakfasting at our inn, we should go to the Basilica to transact the business which brought us to the town. The Basilica, as we have

FORUM AND BASILICA

seen at 2, Fig. 14, stood in the centre of the east side of the street running through the town from N. to S. ; if we go two islands to the W., and two to the E., and then take two N. and S., we find that the streets are planned on a regular square. If Silchester had been a purely Roman town, this square would have been walled in, as was Caerwent in Monmouthshire. close to Caerleon,



FIG. 31.—Plan of Forum and Basilica at Silchester.

where the Second Legion was stationed. It rather looks as if this central portion at Silchester was the first portion built, as early as A.D. 70–85, and the walls, enclosing about 100 acres, were built at a later date to follow the lines of the British earthworks.

The broadest roads in the town were about $28\frac{1}{2}$ feet wide, and formed of a bed of hard gravel, pitched with flints in the centre, to form a gutter.

The Basilica formed part of a group of buildings as Fig. 31. This plan is very remarkable and shows us that the Romans were quite used to buildings planned on an axial line, with a sense of dignity and order. We know that there had not been any such building done in England before the time of the Romans, and after them we shall have to wait till the sixteenth century before we find these ideas again.

The Gateway at 1. Fig. 31, led into the Forum, or Greek Agora, as Fig. 32. This was the market-place of the town, and around it at 3, Fig. 31, were shops. Here the slaves came to do their marketing, and the county people set up little booths. It was used as well for games, and gladiatorial contests before the amphitheatre was built. The municipal



FIG. 32.—The Forum and Basilica at Silchester.

offices were at 4, and colonnaded walks at 5. These connected with the Basilica at 6. This consisted of a fine hall, about 233 feet long by 58 feet wide; here the merchants met to do business, as they do at the "Baltic" to-day. At each end were the semicircular tribunes where Justice was administered In the centre of the W. side was the Curia, or the Council Chamber of the City, with other halls and offices, at 7.

Fig. 33 shows what, the interior of the Basilica looked like. This reconstruction is possible, because part of one of the Corinthian capitals was found, and this settled the diameter of the columns. In Roman architecture the height of a column bears a definite relation to its diameter, and again the entablature over, consisting of architrave, frieze, and cornice, has a definite proportion. During the excavations, portions of Purbeck marble and an imported white marble were found, and it is thought that these were used for wall linings. The portions not treated in this way were plastered, and painted gaily with light red, yellow, white, blue, and green. The world has only become grey in colour since the Industrial Revolution.

We will here insert a reminder that before the Christian era, a Basilica was a place such as we have described, but that after, the word was used at times for a Church.

This group of buildings, in more ways than one, formed the civic centre. It is interesting to remember that the word civilization comes from *civis*, a citizen, one who had mastered



FIG. 33.—The Interior of the Basilica, Silchester. 37

BRIDGES

the art of living in a town. The Atrebates seem to have managed it very well; better, in fact, than we do to-day, with our hopeless struggle to make the dreadful industrial towns fit places to live.

During the excavations no trace of buildings were found to the S. of the Basilica, behind the church, so this space may have been the cattle market, and another open space on the east may have been used for the farmers' carts.

Silchester does not provide us with a specimen of one of the great accomplishments of the Romans, the arched bridge. It is a great pity that they did not feel tempted to span the Thames with bridges like the Pons Ælius and Pons Fabricius at Rome.

Before we study the smaller details of Silchester, it would be as well if we again looked at its Lay-out, as shown in Fig. 14, and consider what it means. True, there are the later walls, added when times were becoming troublous, but even with these it presents a very civilized picture. It is not dominated by a castle, with moat and drawbridges, as was the case with the towns which were built in the Middle Ages. The people of Silchester may have needed protection from raiders, but nobody frowned at them from inside. Here they were able to lead a life which was free, and gave them opportunitics to develop their own individual tastes. Later the Barbarian raids forced men together in packs, and a common fear made them wolfish; the monastery was to become the one place in which a man could do quiet work, and the cloak of Religion the only substitute for a sharp sword. The world had to wait a thousand years or more before it was to see again any town planned on such kindly lines as Silchester.



F1G. 34.—Portion of Pavement discovered at Wellow, Somerset, in 1737.



FIG. 35. COSTUME IN ROMAN TIMES

1



CHAPTER III

THE PEOPLE AND THEIR HOUSES

HE time has come to write about the people who lived in Silchester. We have set out our stage, and the drawings we have made must be accepted as the scenery. Against this background we will place our figures, but, alas, we cannot endow them with life, nor even jerk them with little strings, as marionettes, from the top of the stage. The imaginations of our readers must supply the motive power.

Fig. 35 shows some of the types one might have seen in a walk round Silchester in Roman times. The central couple is a higher Magistrate and his wife. He wears the Toga prætexta, made of white wool, with a purple border, which was worn as well by priests, and freeborn children until they grew up. Under the toga came the tunica, with the purple border if the wearer was a senator. The toga developed from the cloak, which in early times had been the national garment, and in the Empire was the ceremonial dress of the upper classes. Linen was not used before the Empire.

Fig. 36 shows how the toga was put on. About 6 feet of the straight edge was placed over the left shoulder, the curved

side being outside, the remaining part of the toga was passed round the body, under the right arm, and then thrown over the left shoulder as 2. The part which hung down in front from the left shoulder was then pulled up under the fold across the body as 3. We suggest to our readers that it might be very good fun to make togas in some cheap material and dress up as Romans. Women wore the Stola, a form of tunica, with an undershift (subucula), and their mantle was



FIG. 36.—Pattern and Putting-on of Toga.

39

DRESS



FIG. 37.- Hair-dressing.

an oblong-shaped piece of material which was worn as the left hand figure in Fig. 35. This was the Palla. The Tunica was the indoor garment for men and women; sometimes, as shown in the central woman in Fig. 35, it was sleeveless, and then the undershift had sleeves.

Rough tunics were worn by shopkeepers and workmen, like the left-hand man shown in our drawing, and we must bear in mind, that mingling with the crowd we should have met in Silchester, would have been fig-

ures wearing the old British costume we described in Vol. II. The right-hand pair of figures are clothed in this way, but the man wears in addition the hooded cloak (*paenula*), a very useful outdoor garment. This hood was to remain until in the fourteenth century it was lengthed into the liripipe, hanging from the chaperon, and finished by snuggling down into a turban.

As well as sandals, heavy leather shoes studded with nails were worn. Fig. 37 shows a method of hair-dressing which was fashionable in the days of the early Empire, and Fig. 38 is a jolly little carved bone pin which may have been used for the hair.

In Fig. 77, Vol. II., we traced the very beautiful developments of the Brooch (*fibula*): how, from a simple safety-pin, it became a very elaborate affair with bi-lateral springs. These continued in Roman times, but in the early Empire we find hinged brooches, as Fig. 39. The ones illustrated were made of bronze, and then tinned to look like silver.

Had we been walking round Silchester in Roman

F1G. 38. Bone Pin.

ROMANO-BRITISH HOUSES

times, we should not have found all the people in togas to be pure Romans, and those in tunics, Britons. If we remember how small a State was the original Rome, we can see that there would not have been enough Romans to go round. One of the ways in which the genius of the Romans was shown. was their ability to absorb very varying peoples into their midst, and endow them with the Roman



Early Brooches, Vol. II. pp 58, 95, 97. FIG. 39.—Bronze Brooches.

spirit. The great Trajan himself was a Spaniard. Fig. 77 shows the tombstone of a legionary, who, though he was born in Macedonia, lived and died in Lincoln. He may have had a British wife, and told his Romano-British children tales of what he did when he was a boy.

Having seen something of the people and their appearance, we can now pass to the Romano-British houses, and nowhere shall we find a better illustration of Roman skill. The Roman house of Italy was built round small courtyards to exclude the sun. The entrance from the street led into the first of these called the Atrium, which was roofed over except for a central opening, the compluvium, above a shallow basin in the floor, the impluvium. There were small bedrooms at the sides of the Atrium, and the Tablinum, or reception-room, was opposite the entrance ; this room also opened on to the Peristyle at the back. This was the garden surrounded by colonnaded walks, at the far end of which, opposite the Tablinum, was the Exedra, which answered the same purpose as a modern drawing-room.

The Roman in Italy built his house around a courtyard, but in England he wisely realized that he could not afford to shut out the sun, and so opened up the whole plan. The so-called "villa" was really a large self-contained country establishment, with its farm outbuildings. A number have been discovered and excavated in the southern part of England, and among them we may mention as typical instances those at Bignor, Sussex; Brading, Isle of Wight; North Leigh,

CLEANLINESS



FIG. 40.-Plan of Roman Villa.

Oxfordshire; and Hambleden, near the Thames, where a small museum has been built for the objects brought to light.

Fig. 40 shows the plan of a Roman villa, at Spoonley Wood, well placed in a combe opening off the main escarpment of the Cotswolds, near Winchcombe, Gloucestershire.

It is drawn from

information provided in an article by Professor J. Henry Middleton, in Archæologia, vol. lii. Here we have the entrance at I leading into a large courtyard, or combination of Atrium and Peristyle, and this leads, as in the real Roman house, to the Tablinum at 2. The Triclinium, or diningroom, was at 3, with a specially heated room, for use in winter, at 4. As the heat from the stokehole (5) is taken under all the rooms to 6, these appear to have been reception-rooms. Room 7 was not heated, so may have been a summer-room. The kitchen was at 8, with larders and stores at 9. The three rooms at 10 are heated from the stokehole at II, and so must have been for winter use, or for other branches of the family, living under the same roof. Rooms 12 and 13 were the bathrooms cut off from the house, with their own separate entrance from the courtyard. The three rooms (13) were heated from a stokehole at 14, and were the Frigidarium. Tepidarium, and Caldarium. At 12 was the cold bath, 16 feet by 11 feet 6 inches, quite big enough for a plunge and kick about. Evidently cleanliness ranked high as a virtue in Roman times; very much higher than in the time about which Thackeray wrote in Pendennis. Here the old Benchers in the Temple complained bitterly about the water which was spilled on the stairs when being carried up for Warrington's

WATTLE AND DAUB



Primitive Houses. Vol. I. pp. 36, 48, 70, 91, 92; Vol. II. pp. 20, 21, 38, 39, 40, 41, 85, 87, 89.

FIG. 41.—Exterior of Roman Villa.

and Pendennis's baths; they had always managed to do without baths, why did these wretched youngsters want to go in for them? As Thackeray points out, our ancestors, of not so long ago, were the "Great unwashed."

The slaves' quarters are supposed to have been at 15, without any communication with the house, except through the courtyard. This completes the description of the plan, and so far as its form is concerned, there is not any doubt at all; when we come to the structure which was raised on it, we are on more debatable ground, and it may be well for us to describe how we have built up the exterior shown in Fig. 41. The colonnaded walks at 16 had dwarf columns standing on low walls. We know this because the columns which supported the roof were found at Spoonley Wood, 61 inches diameter, and the Stonesfield slates with which it was covered. This is shown in more detail on Fig. 42. The same thing happened at Silchester. Here it was that a valuable clue was gained as to the construction of the upper floors. In excavating it was noticed that some of the ground floors were covered to the depth of a few inches with a layer of clay, which, on careful examination, showed marks of wattling. Wattle and daub construction is known to have been used at the Glastonbury Lake Village (Vol. II. p. 88), and consisted of daubing a mixture of clay and chopped straw on to wattled hurdles, fitted in between timber framing. It was thought that the clay on the floors at Silchester was the remains of a timberframed upper storey that had decayed and fallen down. The appearance of the upper part of a Roman house would



FIG. 42.-Courtyard of Roman House.

have been rather like mediæval half-timbering, though our drawing looks more like a golf pavilion of to-day.

At Spoonley Wood, the ground-floor walls were built of local stone, and average 2 feet thick, and in almost all cases the walls of Roman houses were covered with stucco and coloured.

Fig. 43 shows the Roman Triclinium, or dining-room, and how the diners reclined on low couches round a centre table. It seems an uncomfortable method of feeding, and one of the authors, who, stretched on the hearthrug, served as the model for the figures, has no wish to have dinner in that position.

We referred, on p. 42, to the heated floors at Spoonley Wood. Fig. 44 shows how this was done, and it was a very clever method. If an architect to-day is designing an operating theatre in a hospital, he adopts the Roman way of heating the



FIG. 43.-Roman Triclinium or Dining-Room.



FIG. 44.-Roman Method of Heating Houses-by Hypocaust.

floors and walls, because it prevents the humid air from condensing on the walls, which it will do if they are cold. The Roman architect started with a layer of concrete at A; on this he placed large tiles at B, and built thereon square piers, or $pil\alpha$, C. On these were placed as caps square tiles at D, and others were bridged across at E; on this the concrete floor was formed, with its mosaic covering.

The stoke-hole was outside, and here a slave made the fire, which he may have pushed right under the floor, the degree of heat being settled by the amount of floor which could be reached by the fire under; if an ordinary room, for use in winter, was to be heated, then a duct from the furnace led to a central area, from which other ducts led to the vertical wall flues; if it was the Caldarium, or hot room of a bath, then the whole floor was suspended over the heating space, and the wall flues were multiplied, and gathered into chimneys much in the modern way.

Fig. 44 can be used to describe the way the Romans decorated their rooms. The walls were plastered, and then painted in very joyous colours. At Reading Museum there are pieces of the plaster found at Silchester, showing traces of vivid colour, and painted decoration; these seem to be based on imitations of marbles, and the effect, taken in conjunction with the mosaic floors, must have been very fine.

The floors of the houses at Silchester were finished in a variety of ways; in some mosaic was used, as in the Frontis-

MOSAIC

piece, Fig. 1, which has been drawn from a floor found there. In others, the final coat was formed with a cement made of lime and small fragments of broken brick, which was rubbed down to a smooth surface, and then polished; this was called opus signinum. The mosaic floors were formed of small cubes. of differently coloured materials; black and orange sandstones. white and grey



FIG. 45.-Mosaic Worker.

limestones, yellow and red bricks, and Purbeck marble. Fig. 45 shows the mosaic worker, cutting sawn sticks of these materials into the cubes, or tesseræ; he holds the stick on the top of a chisel, set in a wooden block, and cuts the cubes by tapping with the hammer, just as the old-fashioned sweetstuff man used to do. The hammer and chisel were found at Silchester. The commoner floors were 'laid with larger cubes. If an old Roman floor is examined, it will be found to have a pleasant hand-made appearance, whereas modern mosaic looks like its imitation in oil-cloth.

Windows were glazed at Silchester, and the glass appears

to have been cast in moulds, in the shape of the panes; it is just one more illustration of the fascination of History; here we are writing of window glass, and scientifically heated houses, and in a century or so, the fabric of civilization itself



FIG. 46.-Lamp.

47

COOKING

crumbles away, and we must wait until the thirteenth century before we find glass again in this country, and our twentiethcentury houses are not yet so well heated.

For artificial light, candlesticks were used, and lamps in which oil was burned, as Fig. 46. We can now think of the very important detail of cooking, and in Fig. 47 we see a Gridiron, found at Silchester, and the method of using it. All cooking was done on a raised hearth made of masonry. One of these was found at Pompeii, with the pot in place, just as it was when destruction fell on the city. The charcoal used for fuel was kept in the arch below. The fire was made on this open hearth, and the charcoal fumes. which are dangerous, must have been carried away by a hood over the hearth into a wall flue. We are indebted to a friend for an account of how cooking was carried on in a Florentine kitchen, as late as 1893; the same or en hearth as shown in our illustration was used. In this were small holes about 9 to 12 inches square, and 6 inches deep. in which fires were lighted, and pots boiled in the ordinary way, or food was fried, or grilled. Many vegetable dishes were used, or just the leg of a chicken fried in olive oil. It was when any baking had to be done that trouble arose ; because the Italian seldom bakes, but prefers frying and boiling ; they do not go in for puddings, but buy them at the cake shop. When they have to bake, or warm up anything, they used a Forno di Campagna, or oven of the country, which consisted of a large round pan, like a saucepan, standing on legs; this was put over the fire, and a flat cover being placed on the pan, another small charcoal fire was made on the top, and the cook, with a fan, regulated the amount of heat. This somewhat resembles the old westcountry method described in our book Everyday Things (Vol. I. p. 152), and it may explain why it is that brick ovens are not found in the ruins of Roman houses in this country.

The Romans in this country may have been like the Florentines of 1893, and not such great meat-eaters as the Barbarians they conquered.

The cook shown in Fig 47 is making a sauce in a bronze skillet or saucepan, and a stew is simmering in the bronze cooking-pot. The large pots on the floor are used to keep oil and wine in, and a flesh hook hangs from the end of the shelf. The oil-burning lamp was found at Newstead, a



FIG. 47.—Roman Kitchen. VOL. III.—D 49

SAMIAN WARE



Early Pottery, Vol. II. pp. 25, 27, 71, 108.

FIG. 48.—Samian Bowl.

Roman fort near Melrose, in Scotland. On the table is a lipped vessel called a mortar, which had pieces of grit worked into the surface of the clay before it was fired, so that vegetables and other food could be rubbed down in it. Corn continued to be ground into flour in mills as shown in Fig. 71. Vol. II.

Food was sent up to the table, in what is perhaps the most typical of all Roman pottery, the fine red glazed ware we call Samian, or *Terra sigillata*. This was made originally at Arezzo in Tuscany, and then spread through the Empire, and being copied by the potters of Gaul, was imported into Britain. The ornament was impressed from a mould. Fig. 48 shows a typical shape. There are, in the British Museum, some specimens of plain Samian ware, which have been dredged up from the Pudding-Pan Rock near Whitstable, Kent, where they had been since the vessel which was bringing the pottery was wrecked in Roman times.

Castor ware, as Fig. 49, was made at Castor, near Peterborough, so it is a peculiarly British pottery. It appears to have been founded on Samian, but it is copper or slate colour, and the white ornament in low relief is not cast as the

CASTOR AND NEW FOREST POTTERY

Samian, but executed with a pipe like the sugar decoration on a wedding cake. This ornament has a freedom which is Celtic in its joyous curves. Fig. 50 shows a hunting scene from another Castor vase.

Very interesting pottery was made in the New Forest, as Fig. 51; this was generally reddish-brown or black.

Fig. 52 shows some typical specimens of Roman glass. As was the case with the Samian ware of which we have been writing, the glass was first manufactured in the S. of Gaul, and then in the



FIG. 49.—Castor Ware.

second century, in Belgium and at Cologne, and imported into Britain from there. This stimulated the British craftsmen, and it is thought that the simpler types which are found are their copies of the imported wares. A visit should be paid to the Roman-British Room at the British Museum, where can be seen a most wonderful pillar-moulded blue glass



FIG. 50.—Decoration on Castor Ware. 51



FIG. 51.—New Forest Pottery.

up the water from the well underneath, through the valves as shown. The descending piston shut one valve, and forced the water into the central reservoir through the other, and so up to the discharge pipe.

Great attention was paid to the details of sanitation. In Crete, Sir Arthur Evans discovered bowl. This was discovered quite recently on the Chiltern Hills, under a carriage drive. The bowl was only a few inches below the surface, and formed part of the furnishings of a grave. By a miracle the pick made a small · round hole through the bowl, but did not crack it, so the Museum possesses the only complete bowl of that kind of glass found as vet in England.

Fig. 53 shows how the householder at Silchester provided himself with water. The drawing is a reconstruction of a forcepump found there. The rocking arm worked the pistons, which, moving up and down in their cylinders, sucked



FIG. 52.-Roman Glass.
an excellent system which at a much earlier period made use of jointed drain-pipes; and underground sewers, flushed with water, were used by the Romans from a very early date.

TRADES AND INDUSTRIES

From House and Home Life, we can now turn to the Trades and Industries which supplied the inhabitants of Silchester with the everyday things they needed. The principal shops were in the Forum, because this was the central meeting - place of the town, and they were very simply planned. The front was formed by a square opening in the wall, as Fig. 54. In this was placed the counter, built of masonry, with a gap at one end through which the shopman could pass, the customer preferring to stand on the pavement. A staircase led directly out of the shop to an upper room, and sometimes there was another room at the back of the shop. The shops were closed by wooden shutters, placed in FIG. 53 .- Pump from Silchester. grooves at top and bottom, and



overlapping much as they used to do in England until the advent of roller blinds in recent times.

To-day if you go into the back streets of an Italian city, or one of the smaller towns, you can find the shops still remaining much as we have described. In the larger places, alas, the hideous output of modern industry is very barely veiled behind plate-glass, as in our own London.

Fig. 55 illustrates an interesting pair of scales found at Silchester. The beam is of bronze, about 13 inches long, and graduated on the top, so that the instrument is a



FIG. 54.-Roman Shop.

combination of steelyard and balance. Assuming that the fish being weighed is over 1 lb. in weight ; a 1-lb. weight would be



FIG. 55.—Scales from Silchester. 54

placed in the opposite pan, and another 1-lb. weight would be moved along the beam until the weight of the fish was balanced. If the fish were under I lb., then 1-lb. weight would be placed in the opposite pan, and the other used on the beam, but this time on the same side as the fish. It was an extremely clever way of dispensing with many small weights.

The steelyard works on the laws of leverage we explained in Vol. II. page 43. These may be SCALES

summarized in the diagram on Fig. 56. Imagine that these are the beams of steelvards : a 1-lb. weight 12 inches from the point of suspension will be balanced by a 2-lb. one on the other side 6 inches away ; again, 1 lb. 12 inches away, equals 4 lb. 3 inches away, and 1 lb. 12 inches away. equals 8 lb. only 13 inches away. This will serve to explain the ingenuity of the Roman scale shown in Fig. 56. The leg of lamb is hanging by hooks and chains



FIG. 56.—The Roman Steelyard.

to a ring with a movable collar on the beam. If something heavier had to be weighed, the man held the scale by the middle hook, turned the beam round, and brought another graduated scale into use; by our diagram we see that with the same weight of 1 lb. at 12 inches, he could weigh 4 lb. at 3 inches, or 8 lb. at $1\frac{1}{2}$ inches. This is the reason for the three handles. The butcher shown in Fig. 57 has a steelyard hanging up behind him, and while he cuts up the joints, his wife enters the weights on a wax tablet with a stilus.

Interesting discoveries of tools were made at Silchester. In 1890, and again in 1900, when wells were being cleared out, hoards were discovered of very varying types. It is interesting to speculate how this came about. It is easy to understand how broken crockery, and other oddments, were found in wells and cesspools; a careless person would throw them down to get rid of them, but a careful workman would not do this with good tools. In 1854, at Great Chesterford, Essex, another hoard was found, 6 feet deep in a pit, so it looks as if in the perilous times either at the end of the Roman occupation,



FIG. 57.—A Butcher's Shop.

or during the Saxon Terror, the workman buried his tools, hoping to be able to come back some day and start work again, and as he was not able to do so, there they have lain until discovered by the archæologist of to-day.

The actual tools found at Silchester can be seen at Reading Museum, and so we are enabled to show the Roman at work. Fig. 58 shows a smith using a pair of tongs which are quite modern in type. Besides making his own tools, he would have made those for other tradesmen.

The carpenter shown in Fig. 59 has a metal-faced plane, $13\frac{1}{4}$ inches long by $2\frac{1}{4}$ inches broad, and was well provided with chisels, gouges, adzes, hammers, and axes; all the Silchester axes had hammer heads. He uses the same kind of saw as Italian carpenters of to-day. All the nails used would have been made by the smith. He made the mowers' anvils



Bronze Age Smith, Vol. II. p. 57

FIG. 58.—Smiths and their Tools.

shown in Fig. 60; these were tapped into the ground, and used by men to temper the scythes with which they cut the corn. It is assumed that the strange-shaped implement the man is hammering, which was found at Great Chesterford, is a scythe; the one at the top of the picture from Newstead is a better shape.

The smith provided the iron last shown in Fig. 61, and with it the shoemaker mended shoes as shown.

The smith, in fact, must have been a very handy man; an adze was found (2, Fig. 59) with a curved cutting edge, which suggests its use by coopers to hollow the staves of barrels.



Old Stone Age Tools, Vol. I. pp. 27, 32, 33, 37, 71, 73.
New Stone Age Tools, Vol. II. pp. 3, 16, 17.Bronze Age Tools, Vol. II. pp. 51, 53.
Early Iron Age Tools, Vol. II. p. 52.FIG. 59.—The Carpenter and his Tools.



FIG. 60.—Scythes and Mower's Anvil.

The coulter, A, shown in Fig. 62, helped the ploughman, and points to an improvement on the plough described by Virgil in the *Georgics*; this consisted of a share beam to which was attached the iron share, B, the shaft with a yoke, and a vertical handle; not, in fact, very much different from the promitive type shown in Fig. 59, Vol. II. By the introduction of the coulter a vertical cut was made in the soil, and this could then be turned over far more easily by the ploughshare. We have attempted to show, in Fig. 62, how we think the coulter was applied to the plough of the Romans.

The Smith made large heavy padlocks of what seems to us an extraordinary pattern. Fig. 63 shows how these were operated; the key was inserted at the top into a slot, pushed

PADLOCKS



FIG. 61.—Shoemaker.

into a vertical position, and was then forced down until it engaged with the four vertical rods shown by dotted lines. On the top of the rods were welded flat pieces of iron which were free to spring out at the bottom. The key was perforated to fit down over the ends of the rods, and being pushed down, compressed the flat springs, so that this portion could be drawn off A. We cannot say what the uses of the padlock At Great Cheswere. terford five handcuffs were found, attached to a smaller padlock of the



same pattern (Fig. 64); in the barracks of the gladiators at Pompeii, remains of stocks were found in the guard-room, which worked on much the same principle, so that here in England the padlocks were perhaps a means of discipline for slaves.

The Romans, being men of property, were quite used to locking up things. The simplest type of lock was one which had come down from Greek times, like the top sketch in Fig. 65. Here a long key was pushed through a vertical slot, then, being turned round, was hooked into two pegs or tumblers (2) which being lifted up, allowed the bolt (1) to be drawn back by a leather thong (3) from the outside. In the centre sketch of Fig. 65, the pegs or tumblers (2) are kept down into the bolt (1), so that it is locked by a spring (4); to unlock the bolt a key, rather like a toothbrush at right angles to its handle, is placed under the bolt, so that the tumblers are pushed up, and the bolt can be drawn



FIG. 63.-Padlock. back by the key.

The sketch at the bottom of Fig. 6_5 shows how the tumbler



type developed into the Lever lock. The tumbler has become a projection on the underside of (2), which turns on a pin, and is kept in position by a spring at (3). The tumbler prevents the bolt (1) being shot back by dropping into a slot in it. The kev is inserted and turned. and levers up the tumbler. The key is amusing as it can be worn on the finger as a ring.

Architects to-day are



FIG. 65.—Locks and Keys. 62

DYERS

using wooden thumb latches for cottages, and it would be quite an interesting job for a boy to try his hand at inventing types of simple fastenings. He may be interested to see, in Fig. 66, how the Roman boy saved up his money in an earthenware pot that had to be broken before he could get at the contents.

In the N.W. part of the town at Silchester, there appear to have been dyers' workshops

Here were found remains of furnaces, built rather in the same way as old-fashioned brick-set coppers. Woad and madder were used by the dyers. The woad plant was cut up and washed, partly dried, and ground up into a paste, and allowed to ferment. This being formed into balls, was dried in the sun, and then being collected into heaps, fermented and became hot and fell into a powder. The roots of the madder plant were dried and ground into powder.

The fullers were important people with the Romans. First they had to deal with the new cloth. This was washed with fuller's-earth, to remove the oily matter in the wool of which most of the clothes were made; it was then stretched to make it even, again washed to shrink it, carded to make the nap, and any inequalities being cut off, was finally pressed.

One of the fulleries at Pompeii has pictures showing the different processes. The white woollen cloth was bleached by being stretched over a frame, and subjected to the fumes of sulphur burning in a pot below. In Fig. 17 a fuller is shown walking over the bridge into the town, carrying one of these bleaching-frames.

The fullers also dealt with the cleansing of dirty clothes. According to Mau, soap was a Gallic invention which had only begun to come into use at the time of the destruction of Pompeii, so in the pictures, to which we have referred, the fullers are shown at work doing the cleaning. The clothes were washed by being trodden in a vat by one man, as shown in Fig. 67, while his next door neighbour did the rinsing. Fuller's-earth would have been used instead of soap, and the clothes given careful drying and brushing before they were sent home again. Fig. 68 shows a fuller's assistant demonstrating how, by their process of cleaning, old clothes become as good as new. In St. Mark ix. 3, we read, "And



FIG. 66. Money Pot.



FIG. 67.-Fullers.

his raiment became shining, exceeding white as snow; so as no fuller on earth can white them."

We know a small girl, who, being asked during a Scripture lesson what fuller reminded her of, answered "Chocolates," and



FIG. 68.—The Fuller's Assistant.

so came to great, distress. Our explanation may perhaps save others incurring, in sheer innocence, similar pains and penalties.

Vitruvius, in his tenth book, describes machines and engines, and it is obvious that the principle of the pulley was very well understood by the Romans. In a sepulchral relief of the Haterii, in the Lateran Museum (of which there is a cast in the Greek and Roman Life Room at the British Museum), there is shown an excellent representation of a crane, and this we have used as the basis for our drawing, Fig. 69. The power is



FIG. 69.—Crane. 65

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here man-power, applied by a treadmill. Our drawing will show how the weight of the slaves would turn the wheels and so wind on to a drum between them the ropes, which, passing through pulleys, are attached to the stone to be lifted.

The tomb dates from the end of the first century, and is not so much a work of art, as an advertisement in stone of the doings of the family; the inclusion of the crane rather points to the Haterii as having been successful building contractors, or, perhaps, crane makers.

The crane would not have offered any great difficulty to the Roman in its making. Vitruvius describes a taximeter which, by an ingenious arrangement, dropped a pebble into a box for every mile of the journey, and a water-clock in which water dripping into a reservoir raised a float which turned the dial hands.

Fig. 70 shows some little knick-knacks.

We may now pause to think how this trade and industry was carried on. Orders could not all have been given by word of mouth. A tile was found at Silchester which had scratched on it, FECIT TVBVL(um) CLEMENTINVS (Clementinus made this box-tile); another had SATIS (enough).



and there were other graffiti, as these scratchings are called. These must be accepted as evidence that tile and brickmakers at Silchester knew how to write, and, what is more, to do so in Latin. It is quite certain that the Romans did not import brickmakers, or that the Roman official made bricks for fun, any more than we should do this in India, for instance.

Another point to remember is, that the Roman not only taught the Briton how to read and write, but he settled the form of our own letters. He took the alphabet of the Dorian Greeks, and gradually developed it into the form of the Trajan Column lettering, shown in Fig. 71. Inscriptions cut in stone, of this character, have been found in Great Britain. Examples can be seen in the British Museum, and there is a very fine one on the front of a Roman tomb found in Westminster Abbey, which has been placed by the entrance to the Chapter House. During the last few years there has been a great improvement in our lettering, and good modern types have been very much influenced by that of the Trajan Column.

When our readers go to Rome they must not fail to see the Black Stone in the Forum, which is said to mark the Tomb of Romulus. A remarkable monument was discovered under this in 1901, and part of this is a pillar with an inscription of the sixth or fifth century B.C., the letters of which show a great resemblance to their Greek originals. By the end of the Republic the letters of inscriptions had become quite Roman in character.

In writing, we have the ordinary cursive, or handwriting, which was used by the Silchester brickmakers in their scratchings on the tiles, or by authors for their manuscripts. This writing was influenced by the wax of the tablets on which it was scratched by the stilus. This made it rather angular, and it was just as varied as handwriting is to-day.

The scribes, who wrote out official decrees, or made fair copies of poems or histories, used what is called Bookhand, which, as one would expect, is more beautiful than the cursive. At first they employed a form of writing which consisted of what we should call capitals. From this they developed into what is called Uncial writing, where the forms were rounded, and so more suitable to the pen.





OGHAM WRITING

Silchester provides us with another illustration, and this time it is one which speaks of the city in its decay. A stone was found there with an Ogham inscription cut on it. Ogham writing is a very primitive arrangement of dots and dashes, which seems to have been invented in Ireland, and the Silchester inscription is thought to date from about the fifth This, coupled with century. the burying of tools we noted on page 55, enables us to draw a picture of the deserted town falling into decay. Here, where the brickmakers at one time could scratch a Latin inscription on the wet clay of an unbaked tile, must have come, perhaps, a raiding Scot, whose only means of writing was this very primitive method.



FIG. 72.—Bronze figure from Silchester.

LIFE AND DEATH

Having seen something of the Trades and Industrics which grew up around the Romano-British house, we can now turn to the life lived therein, and see how the Roman fashioned his soul. In one of the houses at Silchester an interesting discovery was made of what is thought to have been the Lararium, or chapel.

Roman religion centred around the house; there was the Lar, or Lares, the spirit or spirits of the house, and a small bronze statuette, Fig. 72, found at Silchester, may have been one of these. Cicero, in a speech of 57 B.C., said: "Is there anything more hallowed, is there anything more closely hedged about with every kind of sanctity than the home of each individual citizen? Therein he has his altars, his hearth, his household gods, his private worships, his rites and ceremonies." Vesta was the spirit of the hearth, the Penates of



FIG. 73.-Sacrifice.

the store closet, and Janus of the door. The father was the Paterfamilias, and acted as the priest, and his birthday was the festival of his Genius, or inspiring spirit.

There were gods of the city, and the Vestal Virgins guarded the hearth fire of the State in their house by the Roman Forum, and here Janus dwelt in the Gate. Jupiter was the God of Lightning, Juno of the Women, and Mars of War. The old Nature worship had developed, until almost everything had its spirit who must be propitiated by sacrifice. The spirits became more tangible and the gods more heroic. but they were feared and not loved. Instead of the Christian belief that man is made in the image of God, the old gods were made like man. What the Roman wanted was the protection of the gods for the safety of his family and the prosperity of his city. For this he was prepared to pay a price, in the sacrifice of the first-fruits of his crops, or by the life of his ox, pig, and sheep; the god had the internal organs dedicated to him on the altar, and the flesh was eaten. What really counted was an elaborate ritual, which had to be followed with great particularity. Fig. 73 is of a Roman sacrifice.

The Roman year was marked by a series of festivals at varying seasons. The Saturnalia, at sowing, from which many of our Christmas customs come; the Robigalia, for the aversion of mildew; the Ambarvalia, from which is derived

FESTIVALS

Rogation - tide processions through the fields and the beating of bounds; and the Consualia at the harvest; and there were many others.

Augustus effected a great revival in Roman religion. It was about this time that we find the beginnings of Cæsar worship, which became general, and was adopted for political reasons. Here it was not the man so much as his Genius which was worshipped.



FIG. 74.—Mithras.

As the Roman Empire extended, many Oriental cults were grafted on to the body of her religion, as those of Isis and Mithras. The latter seems to have appealed especially to the soldiers, and part of its ritual consisted of the novice being initiated, and cleansed, by being baptized in the blood of a bull (Fig. 74). Mithras was worshipped in underground temples, of which there is a very interesting example in the undermost of the three churches which form S. Clemente in Rome. There are traces of a temple on our Hadrian's Wall.

Fig. 75 shows the solemn clasping of hands (dextrarum iunctio) which formed an important part in the Roman wedding. The pronuba or matron friend of the bride, stands behind the bride and bridegroom, and the man holds the marriage contract in his left hand. After this, prayers were offered to the gods and sacrifice made to Jupiter. The bride, on the night before, had put off her girl's clothes and dedicated them, with her toys, to the Lares of her father's house. On the wedding morn she wore the tunica recta with a woollen girdle, on her head was a chaplet of flowers, her veil was flame-like, and her shoes were saffron-coloured.

Our space will not permit us to write of the very interesting ceremonies which were observed at the birth of a Roman, or of all the festivals observed at the various seasons of the year. So we must pass on to the final stage of all—Death. BURIALS



FIG. 75.—Marriage.

We have in these books paid considerable attention to the methods of burial, and this must be done, because it is a detail in the lives of man that is very indicative of the "fashion of the soul."

As far back as the Mousterian Man of the Old Stone Age (Vol. I. p. 49), we have found men burying their dead with varying ceremonial. In Roman times we find that burials, which were not allowed within the city walls, were placed instead along the roads leading to the town. At Silchester, Roman interments have been found at the side of the road leading to the North Gate. In early Roman times, burial was carried out by inhumation, that is by placing the body in a coffin in a grave dug in the earth. This may be by reason of their association with the Etruscans, who are thought to have been of Mediterranean stock (Vol. II. p. 8), and so inclined to this method. Later, we find the Romans cremating or burning their dead, the ashes being disposed of in a variety of ways. Sometimes these were placed in glass jars, protected by being placed in leaden canisters; in other burials, pottery, or







Early Tombs, Vol. II. pp. 37, 73. F1G. 77.—Tombstone.

marble urns. were used for the same purpose. These were at times placed in graves, made in cist or boxlike form, of red tiles about 2 feet square by 3 inches thick. In these early cremations we find the old custom of burying articles for use in the spirit world : jugs, dishes, lamps, chairs, strigils, coins, mirrors, brooches, have all been found in England. AsChristianity spread this changed. and the soul of the Christian was not thought to need so many aids. Burial was now once again by means of inhumation in coffins of

wood, stone, or lead, the latest ones lying E. and W., with the head at the W. In modern times cremation has again been introduced.

Funeral ceremonies were elaborate in Roman times, and Fig. 76 shows the burial of an important person of the time of Augustus. The dead body was laid out on the funeral bed in the house, and dressed in the toga. Torches burned at the corners of the bed, and there were hired mourners; money was placed in the mouth of the corpse, in Pagan times, to pay for the spirit's journey. The procession was headed by musicians, followed by the hired mourners, then came the funeral bed in its litter, followed by the family. A halt was made at the Forum, and an oration delivered, and the procession would go to the place of burning without the walls, where the body, being placed on a pyre, was reduced to ashes, which were collected and placed in an urn.

FUNERALS

Afterwards there was a funeral feast.

Fig. 77 shows the tombstone of Gaius Saufeius, who served for twenty-two years in the 9th Legion, and dying at the age of forty, was buried at Lincoln. The tombstone is now in the British Museum, in the gallery on the ground floor, opposite the emperor he served. The extended inscription is :

C(AIO) SAVFEIO C(AII) F(ILIO) FAB(IA) HER(ACLEA) MILITI LEGIO(NIS) VIIII ANNOR(VM) XXXX STIP(ENDIORVM) XXII H(IC) S(ITVS) E(ST).

From which we learn that Saufeius came from Heraclea in Macedonia, and belonged to the Fabian tribe; but there may be descendants of him in Lincoln to-day who have forgotten their ancestry.

Funeral monuments, as that of the Haterii, from whence came the crane (Fig. 69), afforded the Roman opportunities for the display of portrait busts. As we look at these to-day, it is easy to see that the portraits were speaking likenesses. It is interesting to note that with the advent of Christianity the dead were shown in attitudes of peaceful repose, until, with the coming of the Renaissance, they sit up and begin to take notice once more as in Roman times.



FIG. 78.—Portion of Roman Tesselated Pavement, discovered in Leadenhall Street, London, 1803.

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CHAPTER IV

THE ARMY, AND TRAVEL BY LAND AND SEA

T would be well worth going to Rome, to see only the Column erected by Trajan to commemorate his victories over the Dacians. Here, in a sculptured band which ascends the shaft in a slow spiral, we see the Roman soldier at work, and his work is not only fighting; very much he appears to have been the handy man of the Empire, able to build a city, as well as destroy one. If we cannot go to Rome, there is a first-rate plaster model of the Column at the Victoria and Albert Museum, South Kensington.

During the first three centuries of the Empire, the army was divided into Legions and Auxiliaries—the former being the descendants of the early citizens and farmers who left the plough to fight, and Auxiliaries recruited from subject peoples. A Legion was known by a number, and equalled about 5000 heavy infantry, and 120 riders for dispatches and scouting. It was commanded by a senator, nominated by the Emperor as commander-in-chief (*Legatus Augusti legionis*), 6 military tribunes of high social rank, 60 centurions who equalled majors and captains and were promoted from the ranks, and other inferior officers. Legionaries served with the colours for twenty years, and received a bounty and land on discharge.

The Auxiliaries were divided into infantry cohorts of 500 to 1000 strong, and cavalry troops $(al\alpha)$. They were commanded by Roman officers, præfects, or tribunes, and while their pay was less, their service was longer than the Legionaries; they received Roman citizenship on discharge.

The Emperor's Prætorian Guard was stationed in Rome, but the remainder of the army was on the frontiers; here the Legions stopped, and were not moved about. They were grouped with Auxiliaries, and commanded by the Governor of the Province.

The battles of the Empire were won by the Legionary, who threw his javelin, and then rushed into close quarters and fought with his short sword (gladius), Fig. 79, which was a cut-and-thrust weapon. The Auxiliary cavalry operated on the wings, from which we get their name (ala), and the Roman commanders do not appear to have wished to use them except in this way, of protecting the Legionaries, who delivered the main weight of the attack. STRATEGY

The tactics of this fighting at close quarters were to remain until the advent of the Martini-Henry rifle, issued to British troops in the 1870's, by its longer range, removed the combatants from one another, and altered the whole strategy of fighting. The musket was not very much more effective, so far as range was concerned, than the longbow, and so long as it remained in use, the which problem confronted the soldier was the same as in Roman times-so to discipline your men that they would endure punishment until the psychological moment when the " knockout" could be administered.

If we kept a school, we should arm our pupils, with dummies of course, and take them to the playing



Old Stone Age Spears, Vol. I. pp. 53, 80, 85. New ", ", Vol. II. p. 19. Bronze Spears, Vol. II. p. 19. F1G. 79.—Legionary.



Early Swords, Vol. II. pp. 56, 104. F1G. 80.—Centurion.

fields. We should insist that they threw the pilum and bent the bow. It might, of course, pass from history into a joyous rag, but it would dent intotheir young minds at what short range men used to fight. when fighting was an art, and not a detestable science as now.

The pilum of the Legionary (Fig. 79) had an iron head fixed into a wood shaft, and the weight of the iron head kept the javelin in a straight line when it was thrown. We do not know what the range of the pilum was, but the Tasmanian could throw a wooden spear, nearly 12 feet long, and kill game at 40 to 50 yards (Vol. I. p. 41). The notes on Fig. 79 will explain the remaining equipment of the Legionary. Fig. 81 shows the scale armour of bronze tinned, that was sometimes worn instead of the lorica segmentata, and Fig. S2 the caliga, or sandal. Fig. 80 shows the equipment the centurion. of

ENSIGNS

Fig. 83 is a belt buckle found at Newstead.

Fig. 84 shows an Auxiliary, who wore only a leather jerkin, without body armour, an oval shield, and a longer sword, the *spatha*, as Fig. 85. The Auxiliaries, who are shown on Trajan's Column, wear the same dress whether fighting as cavalry or on foot.



FIG. 81.—Scale Armour (Lorica squamata).

There were others, as the slingers and stone-throwers, shown on Fig. 86; the archer (Fig. 87); and the pioneer (Fig. 88), using

his *dolabra*, a combination of pick and axe.

The soldiers were rewarded for acts of bravery. The officer has phaleræ on his breast, and torques taken from the neck of his enemy hang from his shoulders. Crowns were given as a reward: the corona triumphalis of bay for the trium-

phator; of oak leaves for saving the life of a comrade; in the form of a ship's prow for the first to board an enemy ship; as a city wall for the man who stormed walls; as a rampart for those who took camps; and of plain gold for pure bravery.

The ensigns were carried by men with a head-dress made of a lion's or leopard's skin. These served to mark the maniples, or units, of which the Legion was composed, and enabled the commanders



FIG. 82.—Sandal (caliga).

5° diam.

FIG. 83.—Belt Buckle.

EAGLES



FIG. 84.—An Auxiliary.

to direct the movement of their men. The ensigns are shown in Fig. 89. Each Legion carried the eagle, which corresponded to our colours, and to lose it was to ensure disgrace

The troops were accompanied by a medical corps. On Trajan's Column a wounded Legionary is shown being assisted to a dressing station, where an Auxiliary is having his thigh bandaged in the modern way. At various points on the frontiers there were well-planned hospitals for sick troops.

The Legionary was aided by effective artillery. Artillery is derived from a word which means to work with art, and doubtless the Roman did feel that his engines were works

CATAPULTS

of art. They may have inherited the use of projectile-throwing engines from the Greeks, but these appear to have been in general use in the Near East after about 400 B.C. Vitruvius the architect, writing about the time of Augustus, gives descriptions and elaborate formulæ for the construction of Catapultæ, Scorpions, and Balistæ for throwing javelins and stones. Catapultæ are shown on the sculptures of the Trajan Column, and there is another on the tombstone, in the Vatican, of C. Vedennius Moderatus, who was an architectus armamentarii in the Imperial arsenal at the end of the first century A.D. From these sources there have been various reconstructions of these old engines, and those of Sir Ralph Payne-Gallwey, shown in his book, are of great interest, because he has made actual working models. The first consideration of the Roman



engineer was to remove his engine outside F1G. 85.—Swords. the range of the bow. This raises the

question of the length of the bowshot. With the English longbow, the very longest range was 440 yards; but the archer of the Trajan Column, in Fig. 87, is shown armed with



FIG. 86.—Slingers and Stone-Throwers VOL. III.—F 81

a bow of the Turkish pattern, built up of horn and sinew, and there are accounts of shots of fabulous length with this. However that may be, the problem confronting the Roman engineer was not formidable, because it is obvious that the strength of the machine could very easily be made to exceed that of the man. Sir Ralph Payne - Gallwey succeeded in throwing a stone ball, 8 lb. in weight, from 450 to 500 yards.

SKEINS



FIG. 87.—Archer.

these skeins were passed through holes bored in the frame and then into large wooden washers. The skein was then secured by a pin going through the centre, and was tightened by handspikes fitted into holes in the edge of the washer, and secured from springing back by catches, as shown. The skein was further and he only depended on rope skeins for his power. The Greeks and Romans possessed the art of making these with hair and gut, but it was lost during the dark ages, and in mediæval times the engineers depended on a counterpoised weight to throw the projectiles out of their trebuchets.

In classical times the power was obtained by torsion. Fig. 90 has been drawn from sculptures of the Trajan Column, and shows a catapult mounted on a small cart drawn by The arms of horses. the bow are composite, like the Turkish bow, and the ends are fitted into the skeins of hair or gut. The ends of







FIG. 89. ROMAN SOLDIERS CROSSING A BRIDGE OF BOATS

tightened, when the bowstring was drawn back, by the winch at the end. This pulled back the carrier in which the javelin rested, and the bowstring being released, the heavy javelin flew off, to come down into the besieged town. A variation of this engine for throwing stones was called the balista.

The onager in the same way depended for its power on a twisted skein, which in this case was horizontal. This skein was tightened in one way by hand-spikes, as shown in Fig. 91, and in the other, when the arm was pulled down by the windlass. This arm was built up to make it resist the shock of being stopped against the cross-piece of the frame. The stone ball, or rock, was placed in a leathern sling, and the trigger was a hook with an attachment by which it was pulled out of the ring on the arm. The stone ball, which was sent hurtling through the air, would have had sufficient force to crash through a roof.

The Romans also used the battering ram. In its simplest torm, as shown on the Trajan Column, it consisted of a heavy beam which was carried by several men, and the point banged against the wall. After some few stones had been dislodged from the face, the rubble interior would not have presented so much difficulty to the breaching party.

Vitruvius gives descriptions of more elaborate forms, where the ram was suspended from the roof of a hut, made to run on wheels, and covered with raw hides, and as the machine moved slowly, it was called the tortoise of the ram.

Movable towers were brought into use so that the besiegers could approach the walls of a beleaguered city and fire into it at more advantage than from on the ground ; other movable huts were contrived so that the ditches in front of the walls could be filled up, and the engineers, crossing on the causeway so formed, could undermine the walls.

The people of to-day, who attempt reconstructions of these engines, are rather apt to provide their models with geared wheels enmeshed, the cogs of which could only have been cut on a machine; in our drawings we have suggested details which are much more home-made in character, and which the Legionary could have made quite easily when he was far removed from his base; and we know, from the Trajan Column, that he was a very handy man.

Boys and girls will remember the dramatic part which catapults played in the destruction of Carthage. There was





FIG. 91.—The Onager.

the mission of Cato to Carthage, in 157 B.C., from which he came back convinced that "Delenda est Carthago." Later, the Consuls, from their camp at Utica, demanded the surrender of all the Carthaginian weapons, and 200,000 sets of weapons, with 2000 catapults from the walls, were surrendered. Then came the final order, that Carthage was to be destroyed, and any new town that was built must be ten miles from the sea. It is one of the most tragic tales of history, how the Carthaginians, finding that they had been betrayed, seized on the scanty time which elapsed before the Romans started the siege, to re-arm themselves; how new weapons and missiles were made from the iron and lead of the buildings, and the women cut off their hair to make skeins for new catapults. We cannot here tell of how the Carthaginians, behind their walls, maintained themselves against all the attempts of Scipio, until the last awful assault when the Romans cut their way in, from wall to wall, through the houses, to save the risks of fighting in the narrow streets. Then the last scene

FORTS

of all, when the wife of Hasdrubal, cursing her husband for his cowardly escape, killed her two sons, and perished with their bodies in the flames, when the site of the town was obliterated by the plough and dedicated to the powers of the Underworld. It was all typical of the tough Roman spirit which would brook no rivals. If the drawings we have made of the war engines serve no other purpose than to invest the tale of Carthage with a new interest, and our readers with a determination to reconstruct on their own account, we shall be well repaid for our trouble.

We can now leave fighting and find out how the Legionary lived. The soldiers were quartered in forts, around which towns grew up; the Legions occupied the larger fortresses at some distance from the frontier, as at York, where they could march out to the support of the Auxiliaries who were manning the Wall. The country round supplied the cattle and corn.

As the Roman fort was just as carefully planned as the Roman town, it may be as well to describe it here. The fort followed the same lines as the camp. When the Legion was on active service and camped for the night, it did so behind earthen walls of a regular pattern. Polybius has left a description of the Republican Camp, and Hyginus of that of the Empire, shown by Fig. 92. The Prætorium, where the tent of the commander was pitched, formed the centre of the camp, and around it were grouped the quarters of staff and bodyguard. At the back was a Forum where the soldiers could meet, and again behind this the Quæstorium, or paymaster's office. The Roman forts were provided with granaries to hold sufficient corn for a year, so that they could withstand siege. Tribute was based on property and a com tax which went to feed the army. The forts were provided as well with baths. The street in front of the Prætorium was the Via Prætoria, and led to the Porta Prætoria (1). The street which went across the camp was the Via Principalis, and led from the Porta Principalis Sinistra (2), on one side, to the Porta Principalis Dextra (3), on the other. The tents of the Legionaries and their Auxiliaries were pitched in the vacant spaces between these. When a fort had to be built, as at Newstead near Melrose, or on the Wall, the soldiers quite naturally built it in the form of the camp to which they were accustomed.
Hadrian's Wall was started about A.D. 122. The Wall proper was built of hewn stone, about 8 feet thick, and 18 feet high, and on the north side was a ditch; its appearance, from this side, would have been much the same as the wall round Silchester, shown in Fig. 14. There were some sixteen large forts in connection with the Wall, and at more frequent intervals, smaller forts (mile castles) and turrets.

Wherever the Romans went they carried with them their love of the games, and here we would remind our readers, that we shall obtain a very false perspective of history if we take our viewpoint from too modern an angle. We think



Early Camps, Vol. II. pp. 5, 29, 31.

FIG 92.—Roman Camp described by Hyginus.

of the doings of the Spanish Inquisition with horror, but Torquemada and Co. only adopted the usual methods of the secular courts of their time, the rack, pulley, and bucket of water, in their attempt to cure souls. In the same way we must remember that the *Meditations* of Marcus Aurelius, which have comforted many men since, were written by a man who must have attended the games. Originally these had formed part of religious ceremonies, and gladiators first appeared in the funeral games.

We have seen, by Fig. 14, that there was an amphitheatre at Silchester, and there was another at Dorchester, which we have shown in Fig. 93. Compared with the Colosseum, for example, these are simple constructions of earthen banks, but the displays given would have been much the same as those of Rome, though less elaborate.

Castor ware, which we have seen, was an entirely British pottery, is sometimes decorated with gladiatorial combats. There is an ivory statuette of a gladiator in the British Museum, of the same type as shown in Fig. 94, and gladiators are shown in mosaic work at Bignor, Sussex. Beyond this we cannot go, and our readers if they like can people the amphitheatre we have shown. They can imagine the parade, and then the sham fight with blunt weapons, to be followed by the real thing. The gladiator, as Fig. 94, might not have to fight against another armed in the same way, but could have been



FIG. 93.—Amphitheatre at Dorchester.

matched against the *retiarius*, armed with net, trident, and dagger. If the men held back, they were thrashed into the fight with whips. There must have been wary feints, and lunges, and then a slip, when the net was cast, and the fallen man was hopeless in its entangling folds; but not perhaps quite hopeless, because if he had fought well, he could appeal



FIG. 94.—A Samnite Gladiator.

to the spectators, and be granted reprieve if they waved their handkerchiefs; but if the thumbs were turned down, then all that remained to the poor gladiator was one glance to where the bearers stood waiting with the bier for his dead body, before the dagger found a vulnerable spot, and his blood stained the sand. This may have happened at Silchester, and as we cannot all go to Rome and the Colosseum (though we must go if we can), thrills are still possible in England.

Fig. 95 has been drawn from the Ribchester helmet in the British Museum. This is made of thin bronze, and has a vizor modelled in the form 00

of a face. An iron helmet of the same pattern was found at Newstead, and another of brass. It is thought that these helmets were used by the Celtic Auxiliaries in their games.

Mr. Curle, in his book on Newstead, gives an account of the sports and exercises indulged in by the Roman cavalry in the time of Hadrian. From this we find that the vizor helmets were used by the men when taking part in a tournament, and were crested with yellow plumes; they carried gaily decorated shields, and wore tunics, sometimes scarlet, or purple, and at others parti-coloured. Their horses were protected by frontlets and trappings from the showers of wooden spears which were discharged in the sham fights. Here is a pleasant picture of the Legionaries grouped around the lists, into which ride these very gorgeous horsemen, to go through their evolutions; it was not all work in remote Newstead.

As the history of Roman Britain depends largely on the Roman soldier, we can sketch it in very briefly here. The invasion of 43 was carried out by four Legions and Auxiliaries, in all probably about 40,000 men, and before the death of Claudius, the Romans had progressed as far W. as Exeter, and Shrewsbury, and up to the Humber. From that time to the building of the Wall by Hadrian to define the northern frontier, was the period of conquest, the principal dates of which are noted in the Chart.

The Romans penetrated into Scotland as early as the time of Agricola, but the N. of Britain never passed out of the soldiers' hands, and no towns or villas were built to the N. of York, or beyond Shrewsbury and Exeter. The Second Legion was stationed at Caerleon, near Chepstow; the Twentieth at Chester, and the Ninth, and later the Sixth, at York. It is interesting to think of Britain as being the N.W. Province of the Roman Empire, and needing as careful guarding as India in our own time.

Britain must have owed a great deal to the wise government of Agricola, of whom we hear in the writings of his son-in-law Tacitus. It is probably during this period, A.D. 78-85, that Silchester, Bath, and Caerwent were commenced, and Latin began to be spoken, and the toga worn.

During the second century there were serious risings in the N., but the country on the whole was enjoying peace, and during the third century must have been very prosperous;

THE SAXON SHORE



FIG. 95 .- Vizor Helmet.

after that began signs of the great upheaval which in the end was to overwhelm Rome. The English became troublesome, as early as A.D., 300 when the Saxon Shore was fortified against them. This was done by a series of Forts, built round the coast, from the Wash to Portsmouth. The ruins of many of these remain to-day, and one of the most interesting is that at Portchester. Here the Roman Walls enclose a Norman church and castle keep which has later Gothic additions. From the old ramparts one looks out over the water of Portsmouth Harbour to the Royal Dockyard due S. So here in this one little

spot is some 1100 years of architecture, and the Docks, with the Forts on the hills behind, are a reminder that watch and ward has been kept for over 1600 years, and you really cannot expect to find more than this on any summer's day visit.

There were migrations of Celts, from Ireland to Caledonia, who were oddly enough called, not Irish, but Scotti. The Picts became troublesome about 343, and with the Scotti raided into England. Men began to bury their tools and treasures, as we have seen on page 56, and when hoards of coins are found, they are not, as a rule, dated later than 350-360.

It was about this time that the army was remodelled, and made more mobile, to meet the attacks of the Barbarians, with light troops, and more cavalry. The Governors were not

ATTILA

trustworthy, and there were Dukes of Britain, Counts of Britain, and Counts of the Saxon Shore, in case one alone should aspire to be Emperor.

Now we must not think of Britain all this time as having been occupied by a very large number of Romans who kept the British in subjection. As the latter settled down to Roman rule, the true Romans could not have been more than the official classes, and the skeleton of the army. We must imagine the more experienced of these being gradually recalled as the pressure on Rome increased. Many of the Britons were citizens of Rome, and looked on themselves as Romans; they did not stand on the cliffs at Dover, as the last boatload of Romans left, and cheer, thinking they had seen the last of their enemies. By this time they regarded themselves as Romans, and her enemies were theirs, and very terrible ones too.

The trouble started with a great stirring up of the peoples of the Central Asian plains. Driven perhaps by drought, the fierce and warlike Huns surged towards the Goths, whom they defeated. The vanquished moved across the Danube and Rhine, and, with the Huns behind them, were forced into the Roman Empire. Rome was captured and sacked in 410, and the movement was not stopped until Attila, the King of the Huns, was defeated at Châlons in 451. By this time the elaborate organization of the Empire had broken down, and Europe had entered into the Dark Ages.

Here in Britain we can imagine the Britons holding their own as best they could against their enemies, but being gradually forced into the west, where they joined up with the Celts, and settled down in a primitive environment. Those who did not fly would have been killed, or sold into slavery. The Jutes, the Angles and Saxons must have come up to a deserted Silchester, and have gaped at its wonders, as something entirely outside the range of their understanding in much the same way that an Australian native to-day would regard a stranded aeroplane. Britain and Europe were to wait for a thousand years before the ideas which Silchester expressed again became the thought of the day.

Having dealt with the Army and its bearing on British history, we can turn to the Navy, and just as the Roman generals did not rely on cavalry, so the Empire depended rather on the Legionary than on sea-power. The Roman Navy



Greek Trireme, p. 13. Roman Merchant Ship, p. 93.

FIG. 96.—Roman Galley.

seems to have been used more for the purposes of transport than as an effective fighting force.

When we come to the Roman ship, we find that there is not much more known about it than the Greek Trireme; the writers were not sailors; the sculptors thought more of the design of their sculptures than the detail of the ships they were carving, and the sailors who did know, neither wrote, nor drew. Fig. 96 of a Roman galley is based on those shown on Trajan's Column. We imagine that it would have been rowed in the same way as shown on Fig. 13. The prow is carried up in forecastle fashion, and at the stern is a Tilt. There are paintings at Pompeii showing galleys fitted with a mast and a square sail.

Fig. 97 is of a Roman merchant ship, and here again we have gone to the Trajan Column sculptures, assisted by Prof. Sottas' article in the *Mariner's Mirror*, on "The Ship of St. Paul's Last Voyage." This took place in A.D. 60, and is described by S. Luke in the 27th chapter of the Acts of the Apostles. This description is valuable, as showing the sizes, and general details, of the Roman ship at about the time when Britain was coming under the influence of Rome. We find that when the ship was caught in the easterly gale "we had much work to come by the boat," which had been in tow, and had to be hoisted on board; by "undergirding the ship" with ropes they added to its powers of resistance; "they lightened the ship; and the third day we cast out with our own hands the tackling of the ship." "When the fourteenth night was



come," the water shoaled rapidly from 20 to 15 fathoms, so that "they cast four anchors out of the stern."

The sailors were made of poor stuff, because they were "about to flee out of the ship, when they had let down the boat into the sea, under colour as though they would have cast anchors out of the foreship." We find that there were "in all in the ship two hundred threescore and sixteen souls."

Prof. Sottas, in his article in the Mariner's Mirror, illustrates a model which he made of S. Paul's ship, based on the carving of a merchantman on a tomb at Pompeii, and another from Ostia, and these have many points of similarity with that of the ship on the Trajan Column. From these sources we find that the merchantman, or round ship, depended on its sails, and did not have oars like the galley; there was a tilt at the stern, with a gallery outside it, and another at the prow, with the crew's quarters behind in the forecastle. The mainsail and foresail were brailed up in a peculiar way, the sails were divided up into squares, with leather strips, having eyes at the intersections, and through these. ropes were passed, and the sail drawn up rather like a blind.

Now we come to one of the facts which, we think, illustrates what the Roman occupation meant to this country—the pharos, or lighthouse, which they built at Dover. The foundations still remain, and in Fig. 98 we show a galley which has made the cross-channel trip at night, and reached the land safely. During the Middle Ages, the lighting of the coasts was regarded as an act of piety, and a few lights were maintained on church towers, but it was not until well on in the nineteenth century that any real progress was made. Here, as in so many other ways, the Romans anticipated what was necessary in a civilized state.

If we leave our ship on the coast, we need roads to travel by on land, and this was an especial need for the Romans with their huge Empire to administer. By the roads treasure was conveyed to Rome in sealed baskets, *fisci*, hence our word 'fiscal.' We are all of us far too ready to take things for granted; we walk on a Roman road, and are not thrilled; we may say, "Well, after all, it is only a road," and we forget the travellers who, through all the centurics, have hurried along its surface. It is interesting to speculate why a road should be in the position we find it. The answer, that it serves to connect two towns, may not contain the whole essence of the



FIG 98.—Roman Lighthouse. 95

matter, because we can then ask why the towns have grown up in these places. There must be certain ways up and down a country, but these would not be very useful unless they connected areas where men could grow corn, or cattle, or find iron and coal with which to work.

The Romans, when they came to Britain, introduced an entirely new method of living; the hilltops did not attract them, and they needed the fertile soil of the valleys for their scientific farming. A friend who has lived many years in S. Africa, told us that he used to find pleasure in speculating how the country would be developed ; in travelling he would come to a spot where the track was crossed by an easy way from a land where corn could be grown and carried to the sea, and it seemed to him just the place where a town would be built. The Romans were confronted with similar problems when they came to England, and it is a proof of their genius that during the nineteenth century, when we were planning railways, many of these followed the lines of Roman roads. Towns and cities had grown and developed in the places where the Romans had planned them. It is thought that they were the first to appreciate the possibilities of the site of London. If the capital city existed at all before their time, it can only have been as a port to S. Albans. We saw in Vol. II. that the Britons, before the time of the Romans, had a welldeveloped system of track-ways. We have shown these by dotted lines on our map (Fig. 3), so that their direction may be compared with the Roman roads. The Britons kept to the hilltops, because by so doing they avoided the undrained lowlands and forests. We must remember that iron, and sharp tools, were only introduced so late as 450 B.C., and very little headway could have been made in clearing the land for cultivation. We forget to-day what constant effort is needed to hold Nature in check, but a reminder can be seen at the Rothamsted Experimental Station, Harpenden, Hertfordshire. Here, some years ago, it was determined to leave untouched a piece of arable land and see what would happen. Gradually the weeds took possession, then bushes, and now large trees give the land the appearance of forest.

Small wonder, then, that the Britons kept to the hilltops, and the adjacent slopes for their farming. Here it was that they obtained the skill to which Cæsar refers "from daily use and practice they become so expert that they are accustomed,

ROAD PLANNING

on shelving and precipitous ground, to rein in their horses at full speed, and in an instant to check and wheel them."

When the Romans came, they had far better tools, and had learned how to multiply their effort by mechanical devices. like the crane shown in Fig. 69. They also saw that men could not always live on the hilltops, and that the fat lands of the valleys would be more productive when properly drained. Nothing is more expressive of the Roman genius than the Roman road. One of the most urgent questions to-day is the traffic problem, intensified by the coming of motor traffic. During the early part of the nineteenth century, we lost the road sense; railways began to carry men and goods about, and the roads fell into disuse. Worse still, the people had not any ideas of town-planning, so as the towns developed, hideous factories were built in the suburbs, and grouped around these were the back-to-back hovels of the workers ; the narrow mediæval lanes were not widened, and remain to-day as the bottle-necks which throttle the arterial roads. To-day one may drive through a maze of crooked lanes, until, turning into a great high road, the car settles down with a contented hum, the driver is happier, and every one much safer, because one is on a road designed some eighteen hundred years ago.

If we are motoring along a Roman road, it is noticeable that it goes in as straight a line as possible between the towns it connects, but if it is necessary to alter the direction this is done on high ground. This is thought to prove that the surveyors who laid out the roads in Roman times, did so by fires lighted on the hilltops. It would then be quite a simple matter to set out the intermediate points, sighting the flames by night, or the smoke by day.

When they came to the construction of the roads, the Romans very properly used local materials; stone in a stone country, and flint and gravel where these were found. It is a mistake to think that the Roman road was always paved with stone, but one outstanding feature is that the road was almost invariably raised up on a causeway. The country was not so well drained as it is to-day, and so the causeway would have kept the road dry in the bottoms, yet the Romans would repeat it over the top of a chalk Down.

On our map (Fig. 3) we have given an outline of what the principal authorities accept as the Roman road system; doubt

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ROAD SURVEYING



FIG. 99.—Roman Milestone.

is thrown on some, and archæologists are working at the subject, which is one that might well engage the interest of boys and girls in their own locality.

Fig. 99 is of the milestone in the Roman Britain Gallery at the British Museum. The Roman mile was 1617 yards in length, and this stone was set up 8 miles from Kanovium (Cærhyn, near Conway). Boys and girls should go and see the stone, because it is far more than so much stone; in front of it weary Legionaries have mopped their brows, or country-

men, as we have shown, stopped to spell out the Latin inscription. This is as follows :

IMP. CAES. TRAI ANVS. HADRIANVS AVG. P. M. TR. P . P. P. COS. III. A. KANOVIO . M. P. VIII.

This they would have extended to IMPERATOR CÆSAR TRAIANVS HADRIANVS AVGVSTVS, PONTIFEX MAXIMVS, TRIBVNICIA POTESTATE. . . . PATER PATRIÆ, CONSVL III, A KANOVIO MILLIA PASSVVM VIII. The British Museum Guide points out that these are the titles of the Emperor Hadrian, and his third consulate dated from 119, but as the year of his tribunician power is uncertain, the inscription can only be dated between A.D. 119 and 138.

It must be remembered that our Roman roads were only a part of the system which radiated all over the Empire. Augustus set up a Golden Milestone in the Forum at Rome, on which the distances to the principal cities of the Empire were given. He also set up a regular state post by which dispatches could be carried.

The Romans used various types of vehicles. There was the *lectica*, or litter, like the eighteenth-century sedan chair; the rada, a four-wheeled waggon used when a number of people wanted to travel or luggage had to be carried. For faster travelling there were two-wheeled carts covered with a tilt and drawn by a mule.

Fig. 120 shows a pair-horse chariot which would have been used for racing or as a sporting conveyance.

The bridle bit (Fig 121) was found at Newstead, and Fig. 122 is of what is called a hipposandal, at the British Museum. Ordinary horse-shoes were known to the Romans, but smiths may have been few and far between. These hipposandals may have been used to tie on to the horses' hoofs as shoes when the farmer wanted to take his horses on to the hard roads, in much the same way as a horse wears shoes to prevent his feet cutting the turf when pulling a mowing machine.

CHAPTER V

THE FLOW AND EBB OF ROMAN CONQUEST— FORTS, ROADS, AND TOWNS

E have seen how the Romans lived, the manner of their dress, the nature of their houses and towns. In short, we have taken a flying leap back into the Past, vaulting over at least fifteen centuries, and landing in Roman Britain *as it was*. We might return to our own times, and take a rapid stock of what remains to-day of that strong imprint which was made in our country between the first and the fifth centuries.

But, first, let us direct our attention to an important distinction between the Romans and ourselves. The story of Civilization has been divided into phases called periods. Thus we have in our country the Roman Period, the Saxon Period. the Norman Period, and so on. And the habit of reading history is apt to make one take these periods too much for granted—each one seems inevitable as if it had to happen; had to pass away; and had to be replaced by another. But your imagination will soon tell you that any period you like to place yourself back in has not taken this view of itself. It has always thought of itself as being the last word, as something which has come to stay. This is proved by the permanent nature of public buildings and by inscriptions. Yet thinking men in each period have always had their doubts, and have tried to read the future to gain some clue as to what would become of the nation.

We, who live in the Period of British Empire, put up great buildings and inscribe public monuments in the same spirit as the ancient Romans did, not with any temporary idea of them lasting till the end of our period, but with a view to them lasting for ever. We strive to make our institutions great and vital, not because we believe them to be merely good for ourselves, but because we hope that they will be of lasting benefit to the generations that will follow.



FIG. 100.—The Entrance Colonnade.



FIG. 101.—Hypocaust. Room in north wing. The Roman Villa, Chedworth, Gloucestershire.



FIGS. 102, 103.—The Roman Villa, Chedworth. Pavement of Triclinium.

Now there is this difference between ourselves and the Romans. They had no science of archæology. They saw in the East the ruins of civilizations which had ruled and waned, but they could not reconstruct the story of how these things had come about. Archæology has given us this power above the ancients. We can look back and see how they have thriven and where they have failed. And this possibility is almost as good as the gift of prophecy. It is indeed a faculty which will neutralize the power of a prophet, because it *unfixes* the future, takes it out of the power of Destiny, and places it in our own hands.

This is mentioned to show that a study of the past is not waste of time. We have dipped into the life of ancient Rome as it was lived in our country. We may now look round and see *what has become of it*—a thing which the seers of the old empire were denied.

Since the War, the archæologists have been busy at work at Richborough in Kent. Here there are wonderful revelations as to how things went from the beginning of the Roman Occupation to the end of it. In the old days, there was a narrow sea passage between the mainland of Kent and the Isle of Thanet. It was at the south end of this—opening on to the Straits of Dover—that Richborough was situated. The invading legions which came over in the year 43 (p. 89) landed here and threw up a double ditch and palisade to secure their first footing in our country. The actual remains of this can now be seen at Richborough since excavation has made it plain.

Nearby, stands a mysterious cross-shaped mass of masonry which goes far down into the ground and is solid throughout. It is still something of a riddle, though perhaps more than half the answer has been guessed; for the fine detective work of the archæologists has shown it to have been the foundation of an immense monument, the like of which was not raised in any other part of Britain by the Romans. That part of the riddle which remains unsolved relates to the purpose of this monument. But the guess is a fair one, that it was raised after the triumphs of Agricola to the conquest of the whole of Britain. At that time the major part of the work had been done, and it was thought the rest would be child's play. But Agricola was ordered to go and fight in another part of the empire at the critical moment. And when matters were

RICHBOROUGH

taken in hand again it was too late. Britain was never entirely conquered. The advanced wall, built beyond Hadrian's, between the inlets of Firth and Clyde, could not be held; and Scotland and Ireland remained till the end outside the boundary of the Roman Empire.

In the days when the monument was erected, Richborough was undefended. There seemed to be no need to defend it, for the English Channel was within the bounds of the Empire. But the name of Rome began to grow less awe-inspiring to the men who lived in the uncivilized "outside" world, for political greed and struggles for power had weakened the spirit and the force of the nation. Macaulay writes as one who lived at that time when he says :

> Now Roman is to Roman More hateful than a foe, And the Tribunes beard the high, And the Fathers grind the low. As we wax hot in faction, In battle we wax cold : Wherefore men fight not as they fought In the brave days of old.

So the barbarians grew bold, and took to the sea in raiding parties-Saxons from north of the Roman Empire's boundary in Germany and the men of the un-Romanized isle of Ireland, called at that early time the Scots. At Richborough, this time of fear, which was shortly after the year 250, is vividly illustrated by two rows of banks and ditches cast round the old landing-place (with the monument at its centre). It had been found necessary to defend the entrance to Britain. On the air-photograph these entrenchments are clearly seen. But if the picture is studied, you will see that that is not the end of the story. The defences were probably thought of as a temporary measure to stave off trouble until such time as Rome had reasserted herself, and come back into her old and proper glory. But the barbarian pirates, far from becoming quelled, grew more daring and more dangerous; and Rome, which had once relied on prestige for defending these open waters, had now to come down to the more humiliating device of building local castles at the worse danger points. Thus, towards the end of the third century were built the immense stone walls of the fort at Richborough, which have remained to our own time, and are seen in an air-photograph standing

FORTS

four-square round the works in earth and masonry, which mark the earlier stages of the Roman occupation of the country.

These walls are associated with a very dashing and picturesque character, the admiral Carausius, who made himself emperor by stealing his own fleet, and who struck such a number of penny pieces that they are among the commonest of the Roman coins which you may pick up anywhere in Britain. There is no room here to go into details of the adventures and career of Carausius, interesting as they are, but there is a significant thing to be noted about the building of the walls before we pass on from Richborough. Among the materials which have gone into their making are a number of pieces that can be said with certainty to have come from the structure which stood on the cross-shaped base and was. we guess, a monument to mark the triumph of the Roman arms in Britain. That fragments of this should be built into the walls raised nearly two and a half centuries after the time of Agricola, shows, first of all, that the monument must, even at that date, have been neglected and in ruins; and secondly, that it was no longer regarded as a thing to be proud of. Perhaps its presence was even felt to mock the Romans of that day and to commemorate failure rather than victory.

The stone fort (or castle) of Richborough was only one of the great group mentioned on page 90 under the name of the Saxon Shore Forts. Portchester is the best example. It is practically complete with its wall-walks and its bastions, embracing the immense area of nine acres. The next best are Pevensey in Kent, and Borough Castle at Yarmouth. Relics there are at Reculver (the far end of the sea channel between Thanet and the mainland, of which Richborough was the southern entrance), and at Lympne, on Romney Marsh. Remains of the Roman fort at Dover are not so certain, but the lighthouse already mentioned (p. 94), still stands. Less known is the single example on the west coast of the same type of fort as those of the Saxon Shore. This is to be seen at Holyhead. The parish church stands within the enclosure.

The greatest relic of all is Hadrian's Wall, built across the neck of England from the mouth of the Tyne to the widening of the Solway Firth. The whole length was a little more than 73 miles. Though much is left of the Wall, it does not stand its full height anywhere; this is estimated to have been about 15 feet—the breadth in most places is 7½ feet. Along the

HADRIAN'S WALL

top there must have been an embattled parapet where sentries could walk, though this walk could not have been wide enough to form a fighting platform. In fact, archæologists do not regard the Wall as a military work, in the sense of one made to repel large forces, but as a fortified boundary line, a customs' barrier, definitely separating the Roman from the non-Roman territory.

The sentries who watched the Wall were housed in square towers, called mile-castles, which are separated a Roman mile apart from each other. At intervals, too, there were turrets which are believed to have been signal stations. We know a good deal more about Roman signal stations than we did. even a few years ago, as a number of foundations of these which had not been noticed in the old days have been discovered and excavated. On the English shore of the Solway they extended for some way beyond the end of the Wall. But it has not yet been discovered what means of signalling was used. Perhaps it was smoke, though one would suspect that the Romans employed a device more ingenious and quicker-acting. At longer intervals were placed great forts in which the garrisons lived, which supplied men for duty at the mile-castles, and where forces were always ready to stand to arms in case of emergency.

Beyond the Wall was a ditch of defence. Another ditch, known as the *Vallum*,¹ ran at a short distance from the near (that is, the Roman) side of the Wall. This puzzled the antiquarians for a long while, for it is unusual to have a ditch on the *inner* side of a fortification. And the Vallum is not immediately next the Wall. Between them runs a military road to provide a means of communication and quick movement between points all along the line. But the mystery of the Vallum has now been cleared up. It is known to have been the actual boundary mark of the *Pax Romana*, the limit of the Roman Empire. In places the line of the Wall passes over a tract of volcanic basalt—the hardest rock we have. Yet, in spite of this, the Vallum has been arduously cleft out and faithfully follows its course. When, at the present day, you look down on the ground and see the very groove which

¹ The word "Vallum" means a mound and not a ditch. Originally there was a mound here on either side of the ditch. But in most places this has disappeared, though the name is still attached to the ditch between the mounds.



FIG. 104.—Ruins of Basilica, Uriconium, Wroxeter, Shropshire.



FIG. 105.—The Roman Bath, Bath.



FIG. 106.—The Roman Wall, near Housesteads, Borcovicium.



FIG. 107.—An aerial view of the Roman Fort at Ardoch, Perthshire.





FIG. 108.—Roman Tombstone, Hexham Abbey.

FIG. 109.—Roman Altar, Caerwent.



FIG. 110.—Air view of the remains of the Roman Camp at Richborough.



FIG. 111.-Remains of a Colonnade, the Forum, Uriconium.



FIG. 112.-Inscription from Portico of Forum, Uriconium.



FIG. 113.—Roman Memorial Slab, Tredunnock.



FIG. 114.-Stone, Amphitheatre, Caerleon.

LANDMARKS

the Romans themselves had scored to mark the farthest limit of their sway, it will be strange if you feel no thrill, no shock, no mental dizziness. For there is something so simple and positive about that mark that it seems to knit the past right up to us in a way that no ruin of masonry can. And then, while we may feel almost in touch with the times of Hadrian, the contrast of what was, and what is, strikes us from another angle, but still underlined by the Vallum.

For if, when we look at the Vallum, we are Roman-minded, we feel ourselves to be standing at the farthest edge of civilization, cut off from the mainland by a belt of sea-from that mainland on which, two thousand miles away, stands our metropolis, the chief city of the world. But, if we suddenly turn twentieth-century-minded what a transformation of geography! Our metropolis is close at hand; it is on the same island; as the greatest city of the world it has taken the place of Rome. It is not on the fringe of an empire but at the heart of one, at the heart of an empire which has no fringe, for the sun never sets on it. How much greater is this privilege of citizenship! Yet, we may ask ourselves, if that line had not been drawn in the rock from sea to sea, if the Romans had not founded their Londinium for us to build our London on, would it ever have been our turn to take so great and responsible a place in the history of the world ?

In this same history, the Vallum is like one of those marks on the jamb of a door which records the annual growth of the youngsters of a family. By it we may see where Rome grew to her full stature. As a nation and an empire we have made our marks in other doorways. But the family is not yet grown-up. When it is, it will cease to mark individual statures. Perhaps the time is nearly at hand.

But there is another aspect to the Wall. In spite of its strength and the grandeur of its masonry and that of all the buildings connected with it, it is really a monument to failure and not success. When that pillar of triumph whose foundations we have seen at Richborough, was raised there was no thought of a fortified partition in Britain. It was taken for granted that, although Agricola could not be left to consolidate the country he had marched over, his successor would complete that task. Even when it was found necessary to build Hadrian's Wall hopes were still entertained confidently of subduing the rest of the country. An important stage in this direction was the building of another wall between the Clyde and the Forth. This one, made of turf instead of stone, was constructed by Lollius Urbicus, who was Governor of Britain in the time of Antoninus Pius. Under the name of the Antonine Wall, its ruins still remain. But it could not be held. It was too late. The Roman Empire was decaying. Instead, much work was continually put into the upkeep and repairs of Hadrian's Wall, which one must therefore regard as a monumental admission of defeat.

It is often pointed out how we should take warning by the fate of the great machine which had forged so perfect a civilization, had built up so wide an empire. It is shown how, just when it seemed to be at the zenith of its temporal power, it began to break down and was never able to set itself in order again. Some people even go so far as to hint that the warning is already too late. But the parable is not a true one. It might have been nearly true if we had been living at the time of the Duke of Wellington-just after he had overcome Napoleon Bonaparte, but before he assisted at the opening of the Liverpool and Manchester Railway. But with that event there came into our national history an element which the Romans fell just short of reaching in process of their evolution. In buildings, in roads, in domestic and social amenities (by which are meant heating, sanitation, manufacture of pottery and glass, weaving of fabrics, household decoration, shops, markets, town-halls, theatres, places of worship, and public baths), the Romans had reached a pitch as high, if not higher than, our Georgian forefathers. But we have had another stage of civilization added to our developmentpower. Power alone might not have taken us very far. But with power has come scientific investigation and a new outlook towards heaven as well as earth. And we are still only at the beginning of this new phase, of which the Romans perhaps never even suspected the dawn. All the same, they had prepared, both ourselves and the whole of Europe as well, for what was to come. We made motor-cars, but the Romans gave us the roads.

We may, in fact, think of the Roman roads as preparing us for our advancement in two ways. The most obvious of these is the ease which they enabled us to move from one part of the country to another. But this ease of locomotion brought another blessing with it. The roads, once established

COMMUNICATIONS

with their forts and strong-points, opened trade routes and founded trade-centres. Although the power of Rome declined, and her buildings fell into utter dilapidation and decay, the roads held out—in spite of neglect. They fostered the lifeblood of the new civilization until the coming of the railways. When the railways were made, the centres of business and the market-towns were ready to make the most of the new form of transport, for *the roads had made the towns*. We, in our time, have seen the process reversed again. For now, since the coming of the motor, the towns make the roads.

But while many new arterial systems have come into use, from Telford's time to our own, the Roman roads are still the main thoroughfares both for touring-car and heavy vehicle. From Dover to London; from London to Norwich, to Newcastle, to Chester; from Chester to Carlisle; across the wild tops of the Pennines the oil-driven rubbered wheel circulates our civilization over the work of the Roman engineer.

Yet there is one great Roman road which has not, and never has had, any continuous mission for commerce, that is the Foss Way. It is the straightest of the Roman roads and goes from Axminster, near the south coast, to Lincoln, near the shore of the North Sea, with no more than six miles out of the same straight direction. Most of it is still to be traced, though it is only used in places as a modern road. The truth about it is that it was never intended to be used as a commercial highway at all. It was made after the first phase of the Conquest was completed—just after the first half of the first century. It was made as a military road, and something more than that. You may compare it with the Vallum at Hadrian's Wall, for it was constructed to indicate where the frontier of the Roman Empire rested after the south-east of England had been annexed at the first phase of conquest completed.

The Foss Way is also of great interest in showing what an amazing grasp the Romans had of the life of the land when they had only been here for three or four years. They naturally had no maps ; the country, up to a considerable altitude, was covered with dense forests ; the inhabitants were hostile. Yet they mastered a fact of our physical geography which many well-educated people who have lived in England all their lives are unaware of. They realised that there was a natural division which parted England into two main masses, and that it lay along the north fringe of the Cotswold Hills, along the lower Severn Valley, and then up towards the springs of the Avon. Here stands the watershed. Beyond are the springs of the Soar; and the Soar Valley leads into the Trent Valley, which goes on in a direct line to the Humber and the salt water of the North Sea. The Foss Way occupies the south side of this important division and, for the most part, does so in such a way as to command the country to the north-west.

The next powerful thrust was bent against Wales and no doubt went forward along the lines of what came, in later times, to be known as the Watling Street. This road, which is still in service for the whole of its length between Wroxeter (near Shrewsbury) and London, crosses the Foss Way at the very point which we-having before us a physical map of Britain done in colours carefully and competently by H.M. Ordnance Survey-should have suggested ourselves. It crosses at the watershed, that small area which separates the waters of the basins of Severn and Trent. The place is called High Cross (Venonæ was the name of the Roman station). and is well marked by a peculiar Georgian milestone which takes the form of a small monument. From here the Watling Street takes a slight swerve to the west and ends its Roman course at Uriconium, now known as Wroxeter.

Uriconium, like Silchester, was a great Roman town in which the British element is evident in the nature of its plan, and in other ways; but both its beginning and its end are wrapped in mystery. It is thought to have been the base from which the attack on the Ordovices of North Wales was launched, a base which was later moved to Chester (Deva), where the great fortress was built, which was occupied for so long by the Twentieth Legion. As to its end, the general opinion is that it was sudden, overwhelming, and tragic, an onslaught by fire and sword. One of the most startling clues to this idea was found in the heating chamber of the baths, where, among the small forest of pillars which carried the floor of the heated room above the floor of the furnace chamber (such as appear in our illustration of the hypocaust at Chedworth) some skeletons were found huddled together. They had evidently been suffocated by the fumes. That they had come here as a last resort to escape from a worse death, was seen by the fact that they had brought their small store of earthly treasure with them-the skeleton of an old man still clutched a bag of coins. The disaster is placed in the fifth



FIG. 115.—Amphitheatre from South Entrance, Caerleon.



FIG. 116.—Roman Town Wall, Caerwent.



URICONIUM

century, but whether the enemy was the Pict, the Scot, or the Saxon is unknown.

As at Silchester, no town was ever again built on the site of Uriconium. The village of Wroxeter stands to one side of the ruined city, and is but a tiny place. But much of the church is built with material from the Roman buildings, and the font is hollowed out of an upturned base from one of the columns of the Forum. Silchester, as we have seen (p. 16), was a town of the British tribe Atrebates ; Uriconium was a town of the Cornavii, as is clearly set forth in the finest lettered inscription ever found in Britain, whose place was over the entrance to the Forum. Out of the great quantity of things found here, one of the most interesting is a soldier's dischargebook. It is not quite a book in our sense of the word, being graven on a small sheet of copper. But it evidently answered the same purpose as the discharge-book which is handed to the present-day Tommy when his time of service in the army is expired. It runs as follows :

The Emperor, Cæsar Trajanus Hadrianus Augustus, son of the deified Trajanus, grandson of the deified Nerva, Chief Pontiff, holding the Tribuncian Power for the nineteenth time, Consul for the third time, Father of his Country.

To THE Cavalry and Infantry who have served in six cavalry regiments and thirty-one infantry regiments which are called—(names given but many indecipherable) and are in Britain under Publius Mummius Sisenna; who have served for twenty-five or more years, and have been discharged with an honourable discharge, whose names are written below:—HAS GIVEN citizenship for themselves, their children, and their descendants. and the right of legal marriage with the wives they then possessed when citizenship was given to them, or if any of them are bachelors with those whom they may hereafter marry up to the number of one apiece.

April 14th.

In the Consulship of L. Tutilius Pontianus and C. Calpurnius Atilianus (A.D. 135).

Of the Second Cohort of Dalmatians commended by ... Julius Maximus of Rome.

" MANSUETUS "

To the ex-footsoldier

Mansuetus, son of Lucius of the neighbourhood of Trier.

Copied and checked from the bronze tablet which is fixed in Rome on the wall behind the temple of the deified Augustus near Minerva's temple.

So runs this magnificent rigmarole which is a certified true copy of a bronze tablet put up in Rome-such was the efficiency of the Records Department of the War Office of ancient Rome. Every soldier honourably discharged had such a tablet erected and could have a certified true copy to keep by him if he chose to pay for it. When the present document in copper was prepared, one can sense from the couching of the official language how the ex-footsoldier, Mansuetus, son of Lucius, was much the least important person mentioned. Yet, after all these years, it is his name alone which fires our imagination, because he has presented himself to us as a personality (if a very ordinary one) with a name, who lived in that long-forgotten city of Britain. Here is a man with a name who lived in old Wroxeter eighteen hundred years ago ! We know a little more from the date and the various regiments quoted (and some of these proud fighting units we should never have heard of but for Mansuetus). We know, for instance, that he served as a member of the garrison in that fort on Hadrian's Wall which in his time was called Magnæ and is now called Carvoran. Magnæ is ruined, Uriconium buried, the Empire vanished. But this scrap certifying the honourable discharge of Mansuetus, son of Lucius, is still with us, as good as new, and it may outlast the skyscrapers of New York, concrete though they be.

In Uriconium one may perhaps trace something of the answer to that interesting riddle of *how a town comes to be*. If our guess is right that the attack on North Wales was launched from here, and that the Romans had at first intended the fort they founded here to be the home of a legion (though the plan was changed and Chester made the legionary fortress), then we have the nucleus. After the foundation of Chester, Uriconium would have a double reason for prosperity. For the natural resources of the countryside of Shropshire are rich, and the garrison at Chester, although some forty miles away, would afford it a measure of protection. Now, although the town was wiped out (as we guess) and its site became a desert, the tradition and the developed system of its trade was evidently not lost. These were merely transferred to an adjacent site better protected by natural barriers. The new location chosen was at the bend of the Severn, where the river forms an isthmus, then known as Pengwern and now called Shrewsbury; and its motto, *Floreat Salopia*, still holds good.

Another interesting example of a civil town with something akin in its history is to be seen in South Wales. This is Venta Silurum, now called Caerwent. It also has a neighbour in a great legionary fortress, namely, that at Caerleon (Isca Silurum), but the distance in this case is only a matter of seven miles. Though the buildings at Caerwent have mostly been excavated there is less to see there than at Uriconium, except for one grand feature which is lost to view in the Shropshire town. That is the walls. The south and west walls at Caerwent are one of the best examples of their kind in Britain. In some respects they are unique, and they are now preserved as an ancient monument by H.M. Office of Works. What the fate of this town was after the end of the Roman occupation of Britain is not known. Probably it was not so sudden and disastrous as that of Uriconium. But in spite of its walls it came to an end as a trade centre, though there seems to be good evidence that here again there was a transfer and the business faculty moved from Caerwent to Chepstow.

Caerleon (Caerwent's neighbour) was the home of the Second Legion. And, as was the custom at an important garrison town, there was an amphitheatre in which fights with wild beasts and between gladiators were "put on." Recent excavations have unearthed this building, which has been wonderfully preserved. The entrance, the dens of the beasts, are all to be seen. It is far the best example which we have. It is not the biggest, for that is at Chester, but excavation is here impossible because of the town.

At Colchester the Roman walls of the town are wonderfully well preserved. And here is to be seen the most perfect specimen which we have of a Roman gateway. At Colchester, too, is our only ruin of a large temple. It is very fragmentary, however, consisting only of the vaults of the foundation, for on top of it is built a Norman castle, the whole material of which is of Roman origin. There are many ruins of small

COLCHESTER

temples that were raised to the gods of the British, but of the larger sort dedicated to the gods and the god-emperors of the official religion of Rome no remains exist except this single one at Colchester—it is thought to have been raised to the conqueror of Britain, the deified Emperor Claudius.

Colchester was the old chief metropolis of Britain before the Romans made London. Here reigned Cunobelinus, the Cymbeline of Shakespeare, father of Caractacus. And at Lexden, on the outskirts of Colchester, a tumulus has recently been excavated which contained the remains of so rich and grand a funeral that it must almost certainly have been the grave of Cunobelinus himself.

In old days the archæologist was thought of as rather a fanciful old gentleman who liked only what was dry and dull. But to-day things are changed. Young men are among the keenest and most efficient delvers into the past. The mists of history are clearing quickly, and we shall soon have a clear and precise vista far back into the ages. With this at our disposal we shall, as has been said before, know both what the hopes of our ancestors for the future were and how that future has been fulfilled. And then by the light of this knowledge we may see more clearly what lies in the future for us. This was a privilege denied to the Romans. Can we not make a noble and splendid use of such an inestimable benefit ?



FIG. 119 —Part of the Roman Pavement found at Woodbridge, near Cirencester.

VOL. III.---H



Early Iron Age Chariot, Vol. II. Frontispiece. FIG. 120.—Racing Chariot.

CHAPTER VI

THE ROMANS: A NOTE ON THEIR CHARACTER AND RULE

H AVING seen something of the work of the Romans, we will attempt to find out how it was possible for them to do so much. All their work reflects their sense of Law and Order. A thing must be properly planned, and seen to be logical, before it is carried out. They lacked the Celtic touch of imagination, which rather likes pier-head jumps, and gets out of tight corners by flashes of inspiration. The Roman way was to settle their difficulties beforehand.

If we look into their history, we find that their training was just such as was admirable for the training of soldiers, administrators, and traders. They were an Aryan-speaking people, who had found their way down into Italy from the N. When they founded Rome in 753, they had the Etruscans for neighbours in Tuscany, with the Ligurians to the N., and the Greek Colonies to the S. The early government of families, ruled by patres, or fathers, who met together in the Senate, was able to accommodate itself to the long struggle
with the Plebs, and in fact grow strong on it. The Republic was founded in 509 B.C., and by 300 B.C. the Patricians and Plebs had equal rights in justice, and the struggle was carried out by constitutional means.

The Romans, who were to rule the world, first learned to rule themselves, and in so doing, were led to one of their greatest accomplishments, the building up of a system of Law, and the acceptance of it by the people, as something which was just and by which they were prepared to shape their lives.

Notwithstanding all this, Rome might have remained as a second-rate provincial power, had not her destiny forced her to expand, and take up her inheritance in the Near East.

Rome was mistress of all Southern Italy, and the Greek cities, with the defeat of Pyrrhus in 275 B.C.

When Scipio defeated Hannibal in 202 B.C., Rome became a great naval state, had added Spain to her possessions, and was mistress of the Mediterranean. Yet the seeds of decay were sown; it did not pay to grow corn when it came as tribute from Africa and Sicily, or to work when slaves were cheap.

In the Macedonian Wars, Rome started a series of victories by which she acquired the empire of Alexander the Great. Carthage was destroyed, and Rome by now was mistress of the civilized world. These eastern victories must have had a tremendous influence on Rome. In Greece they found wonderful architecture, sculpture, and a literature which has never been surpassed. In Babylonia, as they gazed at the evidences of incredibly ancient civilizations, the Romans must have fancied they had conquered time itself. Small wonder, then, if they lost their heads, and, departing from the simple ways of their ancestors, forsook the plough for the palace, and instead of working for the good of the State, desired riches, and trafficked in "Honours" for themselves.

A state of affairs grew up when the Senate was greedy for power; the Laws had to be made before the assemblies of the people, and they were kept in good humour by presents of corn, and the gladiatorial fights in the arena. The traders amassed wealth by employing slaves who, chained together in gangs, carried out all the work. The descendants of the farmers, who had left the plough to fight, and then returned home to work, often found, on their return, that they were

CÆSAR AND AUGUSTUS



Early Bits, Vol. II. p. 65. FIG. 121.—Bridle Bit from Newstead.

in debt, and so drifted into the towns, to live idly, or become soldiers. A miserable state of affairs came about, which resulted in the Social and Civil Wars, 90 E.C. and the revolt of the gladiators under Spartacus, 73 B.C.

Here we come to an extraordinarily interesting period of Rome's history ; she had conquered the Near East, and that was the end of it. because there was no work to be done there. Egypt, Babylonia. and Greece were all infinitely old and tired, and Rome could not teach them anything. They

doubtless looked on Rome as something too vigorous and vulgar for any words, and only asked to be left alone to dream of the past. It was almost as if the Oxford of to-day could be invaded by a mob of barbarians, and told to get-on or get-out. Imagination just boggles at what would happen.

From Rome's point of view it was not so much Cæsar and Augustus who stopped the rot and gave her a new lease of life, as the large field of Western Europe to which she now turned. Here were peoples who could be taught. We have seen in Vol. II. that the Britons were not just so many woad-stained savages, but they were of course far behind the Romans, so we must imagine them keeping a watchful eye on the roads and towns we have been writing about and picking up ideas meanwhile.

In our Introduction we pointed out that historians must

depend on other historians, or the evidence to be found in the work of people, and we think that the latter method gives a fairer idea of Roman civilization than the former.

Literarý evidence is apt to be somewhat over-coloured; the writer searches for the extraordinary individual, rather than the everyday man and his doings; the heroes are so incredibly heroic that we despair of ever resembling them, and the sinners so sinful that we shudder. This is very much the case with Roman history, and we are at a loss to understand how it was that Rome carried on her work.

It is rather as if we formed a judgment of our own times on the evidence of newspaper posters, because judged by these it would seem that we lived by murder, brigandage, and piracy.

We know that this is not the case, and that the life of the people is carried on by the effort of the ordinary decent man and woman, who builds and bakes, farms and fiddles, eats, drinks, dresses, and in the end dies, without saying very much about it. It must have been much the same in the days of Rome, because it is evident that, even if she was rotten at the core, she still had good men who could carry on her work in the provinces.

Another thing which makes work so attractive a guide to the historian, is, that there are only three kinds. These are good, bad, and the work of genius, which, in some incredible way, is just a little better than good. Again, work is subjected to laws, like mathematics, and cannot lie, while lies are compounded of words. If there is one thing which man has invented, which lends itself to being twisted into a hundred different meanings, it is the written word.

Another trait of the Romans was their wonderful knack of getting things done. It is quite wrong to dismiss all their effort, by saying that matters were simple for them because they had slaves; in our own time we have discovered the use of machines equal to myriads of slaves, but it has not as yet resolved our effort into works comparable with the Romans, but among our readers there may be a boy who will build for eternity. Such a boy will find when he comes down to the real thing, that work itself is divided into two parts: the first part of designing, and the second of translating the design into the material of which it is to be constructed; and the second part, calling as it does for the work of

SOCIAL LIFE



FIG. 122.—Hipposandal.

many men together, is often more difficult than the first.

We are, of course, apt to forget the long time the Romans took to work out their destiny, but in our own country, from the reconnaissance of Julius Caesar in 55 B.C., to the end of the time of the Roman influence, say about

A.D. 410, 465 years elapsed, which from our own days' would take us back to the Wars of the Roses, and the building of King's College Chapel at Cambridge, or a world which would be stranger to us than Roman Silchester.

It is a curious fact that our problems to-day find their closest parallel with those of Rome.

The Dole and Football are fearfully like Bread and the Games, and, like Rome, our hope is in founding colonies where men may find work.

In the Middle Ages, life and thought were as closely walled in as an old castle, whereas in Roman times men moved about more freely than at any time before the railways came; and in moving about and rubbing shoulders with the people they conquered, the Romans were continually being refreshed by grafts on to the original stock.

The slaves became freedmen, and engaging in trade became proud of it, and joined themselves together into colleges or guilds, and were responsible for many developments during the Empire.

Wealth was spent in public works; it was held to be creditable to decorate your city with beautiful buildings, and to support the Games.

It is very evident that the Romans enjoyed their lives on earth, and above all things they desired to be remembered by those they left behind them. Terrible were the penalties for those who desecrated a burial-place, and very elaborate the precautions which were taken that it should never be destroyed. Those who were poor banded themselves together in Burial Clubs, that their ashes should have seemly burial, and that flowers should be placed on their graves on their birthday. It was rather on the happy day on which they entered the world, than the dismal one on which they left it, that they wished to be remembered.

Virgil, who died in 19 B.C., wrote the *Æneid* towards the close of his life, and though it is largely founded on the *Iliad*, can be taken as representing the outlook of the Roman on the next life. Charon, the ferryman of the dead, takes passengers across the Styx, who look behind them regretfully, rather than ahead with hope, and landing in the Underworld, must pass Cerberus, to be judged by Minos. The wicked go to a prison set in the midst of fire, and the heroes to the groves of Elysium, there to pass a happy life doing much the same that they did on earth, but the half heroic, after a period of purgatorial purification, await the call of destiny to another life on earth.

The later philosophers saved the soul through reason, but the philosophy developed into religion, and became more spiritual, until the doctrines of Mithras arose with many resemblances to Christianity. Sir Samuel Dill's books should be read for the spiritual developments of the Empire.

We have said that the supreme accomplishment of the Romans was the system of Law which they evolved, and that their sense of law and order was reflected in their work. We might reflect for a moment, on the long struggle which civilized man has had with his fellows, in trying to overcome their untidy and ugly habits. If we go to Nature, we shall find that both the mud-flat and the mountain-top are beautiful in themselves; it is only when man trails across them that we can mark his tracks by the tin cans he leaves behind him. There can be no doubt that the ordinary man is an untidy person with a rather slovenly brain. From the days of the Mousterian Cave Dwellers, we showed in Fig. 29. Vol. I., up to a Bank Holiday crowd of our own time, there have been people who left litter behind them for other people. to clear up. It was the Romans who gathered together the ideas of sanitation and health, town-planning and orderliness in the arrangements of our cities, and started on the gigantic task of trying to make man tidy.

It is quite possible that Rome fell in the end, because the Barbarians, finding that they had become strong enough, and becoming enraged at the orderly Roman spirit, rose up and fell on Rome, that they might henceforth be allowed to be untidy. But Rome did not fall, and still lives, because Rome was not a name, or a people, or soldiers, or sailors, so much as an idea of living, which still influences us.

When the Barbarians got to work, they made a sad mess of carrying on Rome's work. The walled cities fell into disrepair, or were used as quarries; the sewers were clogged, to the detriment of health and happiness; houses ceased to be heated, except by open fires, which must have smoked with every puff of wind through the unglazed windows.

At Silchester we gaze at a life which we can understand, and then the time curtains are pulled across the scene, and gloom descends with the Dark Ages.

We very much hope that our book will encourage boys and girls to study Roman work on their own account, because it is an extraordinary period in our history. If they will go to some of the places we have pictured, Bath, for instance, and then realize that it was to take more than 600 years after the end of the Roman influence, before the coming of the Normans, and Norman building, they will realize what a tremendous check it was to civilization when the Barbarians burst their bounds.

Norman architecture was developed out of a hotch-potch of Roman forms, whence its other name of Romanesque. The Normans threw vaults across their churches, which were timid imitations of those of the Romans, and these were the forerunners of the later glorious Gothic vaults.

In the fifteenth and sixteenth centuries there was the Renaissance, or rebirth of the old classical ideas, and men found that the practical genius of the old Romans had provided them with a quarry in which they could dig, and find materials for the works they wished to carry out. Roads, buildings, town planning, everywhere were suggestions that were found to be good.

In the eighteenth century there was a revival of Greek architectural forms, but these were not found to be suitable for modern conditions. The great contribution of the Greeks was the Temple, and this, translated into a Park Lodge, for example, was tragic. In the nineteenth century there was a Gothic Revival, but a nineteenth-century "Gothic" church, built at so many pounds a sitting, turned out to be an industrial horror, entirely lacking the soul of the old work.

THE MISSION OF ROME

Now men have turned to Rome once again, and there is hardly any building being done to-day which is not based on the teaching of Rome. The French were saved many of the architectural horrors that attacked the English in the nineteenth century, because their students at the Beaux-Arts in Paris, and the Academie de France at Rome, never lost their hold on the teaching of Rome. The Americans very wisely went to Paris for their architectural training, which is one of the reasons they are now doing such fine work. So Rome's work is not done yet, if we are still benefiting by her ideas.



FIG. 123.—Roman Pavement found at Itchen Abbas, near Winchester, 1878.

APPENDIX 1

AIR-PHOTOGRAPHY AND ROMANO-BRITISH ARCHAEOLOGY

DURING the 1939-45 War, Britain's isolation from the Continent of Europe was so complete after the evacuation of Dunkirk that the only means of obtaining information about important enemy military sites was by aerial-photography. So important did the technique become that on any fine day towards the end of the war the R.A.F. were taking no less than ten to twenty-thousand photographs. Among other things, aerial-photography has supplied geographers and archæologists with a complete "mosaic " or over-all aerial-map of the entire British Isles, composed of innumerable overlapping photographs. Why should air-photography have proved so exciting to archæologists, particularly to Romano-British archæologists ?

The reason is that aerial photographs reveal the existence of antiquities whose presence has been hitherto unsuspected. Strange as it may seem, air-photographs actually disclose, in an altogether uncanny way, monuments which are buried many feet beneath the soil and cannot be detected with the naked eye by the man on the ground. This happens because the crops and grasses planted above buried antiquities tend to grow either a little higher or a little lower than the crops and grasses on either side of them. Like this:



It has been truly said that nothing is harder to hide than a hole in the ground. Once a strip or patch of soil has been disturbed, it is forever afterwards different in texture than the soil that surrounds it. This difference is accentuated by growing crops and grasses. If the disturbed soil lies above a buried wall, the crops that flourish immediately above it will be parched : the rainwater is prevented from seeping deeply into the earth at that point. If the disturbed soil lies above an ancient trench or pit, the humus at that point will be richer and better drained, and the crops above ground therefore more luxuriant.

Again, the shadows cast by insignificant protruberances on the ground are accentuated to a man in an aeroplane, particularly in the evening, when the sun is low on the horizon :

ROMAN CAMP

The lines of buried or barely detectable Roman encampments are so regular and so severe that they stand out in a startling manner when viewed from the air, either as crop-marks or shadow-marks. In the last ten years Roman camps and entrenchments and forts have literally sprung into the archæological picture in embarrassing numbers. The Romans were energetic builders, and in the four centuries of the Occupation they contrived to cover the landscape with more manifestations of their presence than the Britons themselves managed to do in forty. Airphotography has brought to life, as if by magic, whole intricate systems of subsidiary roads, or methodically-planned chains of posting-stations and signal-towers. The nexus of Roman forts in Scotland, for example, designed to baffle the Picts, has been laid bare. Astonishing as it may seem, the list of Roman sites in Scotland has been doubled as a consequence of the exertions of air-photographers during a single brief decade. The pattern of the Occupation, seen from ten thousand feet, begins to emerge in its clear totality.

If you will look at Fig. 110, an air view of the great camp at Richborough, you will see another use of the air-photograph to the student of Roman Britain. He is supplied with superb, breathtaking perspectives of the camps and towns in which he is interested. Bronze Age barrows or Iron Age camps also lend themselves to air-photography, but unquestionably the most impressive air-photographs are those of Roman sites, with the long straight lines given them by military architects, their precise geometry of outline.

APPENDIX II

CHRONOLOGY OF THE ROMAN OCCUPATION OF BRITAIN

B.C.

- 55 CAESAR makes a reconnaisance and returns to Gaul.
- 54 CAESAR invades in force : marches into Kent, defeats CASSIVEL-LAUNUS, and once more retires to Gaul. CAESAR and ance more retires to Gaul.

CAESAR's attempt to conquer Britain has failed. Celtic chieftains again hold undisputed sway.

A.D.

- 43 CLAUDIUS invades. His expeditionary force, under AULUS PLAUTIUS, lands at Richborough. CARACTACUS and TOGO-DUMNUS are defeated on the Medway. Verulam becomes a *municipium*. CLAUDIUS occupies Colchester. The legions push slowly northwards and westwards, the future Emperor VESPASIAN commanding the Second Legion.
- 47 P. OSTORIUS SCAPULA succeeds PLAUTIUS as Governor. He creates a frontier on the Foss Way. He moves against CARACTA-CUS, now military leader of the Silures of South Wales.
- 51 OSTORIUS defeats CARACTACUS, who flees to CARTIMANDUA, Queen of the Brigantes, and is betrayed by her to the Romans. He ends his days as a prisoner at Rome.
- 53 The Silures fight on. OSTORIUS dies, worn out by his exertions, and is succeeded by the unenterprising DIDIUS GALLUS.
- 58 The enterprising D. VERANIUS NEPOS sets out to cow the Silures, but dies within the year.
- 59 C. SUETONIUS PAULINUS, an able and ruthless general, becomes Governor and marches into Wales.
- 61 PAULINUS reaches the Menai Straits. He invades Anglesey, last refuge of the Druids, and puts them to the sword. But BOUDICCA (BOADICEA), Queen of the Iceni, has revolted in far-off Norfolk. While PAULINUS races back with his cavalry, she sacks Colchester and annihilates the Ninth Legion. Then she destroys Verulam and London, nearly succeeding in driving the Romans from Britain. PAULINUS wins a brilliant victory against superior numbers. BOUDICCA takes poison. Reprisals of the utmost severity follow the revolt. The Procurator, JULIUS CLASSICIANUS, protests against PAULINUS' inhumanity. The Emperor NERO replaces PAULINUS by C. PETRONIUS TURPILIANUS.
- 63 TREBELLIUS MAXIMUS becomes Governor. Comparative peace in Britain.
- 71 The Brigantes become restless. The harsh PETILLIUS CERIALIS is sent by VESPASIAN to subdue them.
- 74 The determined SEXTUS JULIUS FRONTINUS is made Governor. He succeeds in the task of suppressing the Welsh tribes.
- 78 GNAEUS JULIUS AGRICOLA, third of VESPASIAN's fighting Governors, extinguishes the last sparks of Welsh and Brigantian resistance.
- 81 AGRICOLA makes himself master of Scotland as far as the Forth and Clyde.

A.D.

- 83 AGRICOLA thrusts into the Highlands and beats the massed Caledonian armies at Mons Graupius, a celebrated encounter. Perdomita Britannia writes TACITUS, son-in-law of AGRICOLA.
 84 The Emperor DOMITIAN, preoccupied with his German campaigns,
- 84 The Emperor DOMITIAN, preoccupied with his German campaigns, recalls AGRICOLA at the victorious climax of his Governorship, AGRICOLA leaves Britain an embittered man.

Records are scanty for British military history in the latter part of the reign of DOMITIAN and in the reign of TRAJAN. Names of Governors preserved in inscriptions are:

SALLUSTIUS LUCULLUS.

NEPOS.

- 98 T. AVIDIUS QUIETUS.
- 103 L. NERIATUŠ MARCELLUS. Reign of HADRIAN begins. Q. POMPEIUS FALCO.
- 121 The Emperor HADRIAN visits Britain.
- 122 A. PLATORIUS NEPOS, an intimate friend of the Emperor, constructs Hadrian's Wall between 122-126-7.
- 130 JULIUS SEVERUS becomes Governor.
- 140 (). LOLLIUS URBICUS, the next Governor, campaigns in Scotland. He builds the Antonine Wall, of turf, across the Forth-Clyde isthmus between 140-142-3.
- 155 The Brigantes revolt and are put down by C. JULIUS VERUS.
- 160 The Emperor MARCUS AURELIUS sends reinforcements to M. STATIUS PRISCUS, who has succeeded VERUS. Britain is again fanned by the flame of revolt.
- 180 At the beginning of the reign of the Emperor COMMODUS, the Caledonians burst through the Antonine Wall. It is at this point that the military initiative in Britain passes from the Romans to their enemies, with whom it remains to the end of the occupation.
- 184 The war in Britain ends. COMMODUS assumes the title BRITAN-NICUS to commemorate the victory, due to the efforts of the stern ULPIUS MARCELLUS.
- 185 HELVIUS PERTINAX succeeds MARCELLUS and puts down a mutiny in the Roman army in Britain.
- 193 COMMODUS is assassinated. The Praetorian Guard elects PER-TINAX Emperor, then turns on him and butchers him. There is civil war in Rome. SEPTIMIUS SEVERUS seizes power. CLODIUS ALBINUS, successor of PERTINAX in Britain, proclaims himself Emperor and crosses with his troops to Gaul.
- 196 SEVERUS marches on Lyons, where ALBINUS has set up court. ALBINUS commits suicide. In consequence of the removal of the garrison by ALBINUS in his bid for the throne, the barbarians overrun all N. England, wrecking Hadrians' Wall and dismantling the great fortresses at York and Chester.
- 198 SEVERUS sends VIRIUS LUPUS to Britain to repair the havoc wrought by the barbarians. LUPUS, and after him ALFENUS SENECIO, reconstructs Hadrian's Wall between 198-208.
- 208 SEVERUS in person attacks the Caledonians. He penetrates nearly to the extreme northern tip of Britain.
- 211 Worn out by his arduous campaign in Scotland, SEVERUS dies at York. But his work of pacification in Britain is effective. Britain enjoys peace during the subsequent upheavals elsewhere in the Empire.

A.D.

- 286 The Admiral of the British fleet, M. AURELIUS CARAUSIUS, sets up Britain as an independent empire. The two Augusti, DIOCLETIAN and MAXIMIAN, acknowledge the picturesque CARAUSIUS as one of themselves. In addition to Britain, he is allotted a strip of N. France.
- 293 DIOCLETIAN's general, CONSTANTIUS CHLORUS, is instructed to seize CARAUSIUS's French possessions. Meanwhile CARAU-SIUS is murdered by the contemptible ALLECTUS, his finance minister.
- 296 CONSTANTIUS crosses the Channel and defeats ALLECTUS, who is slain in battle. CONSTANTIUS, vigorous and popular, effects widespread reorganization in Britain.
- 306 CONSTANTIUS, after a protracted encounter with the Picts, dies at York. His son, known to history as CONSTANTINE THE GREAT, assumes the title of CAESAR IMPERATOR.
- 337 CONSTANS, son of CONSTANTINE, fights the Picts (from Scotland) and the Scots (from Ireland).
- 350 CONSTANS is murdered. MAGNUS MAGNENTIUS, the Gaulish usurper, is killed by CONSTANTIUS II, together with the beloved MATINUS, vicarius of Britain.
- 360 The cruel LUPICINUS is sent to Britain.
- 368 In the reign of VALENTINIAN I, a concerted attack is made on Britain by Picts, Scots, Saxons, Franks and Attacotti (a confederation of tribes in Ireland). The Roman troops are everywhere routed. VALENTINIAN despatches the Spanish COUNT THEO-DOSIUS to clear the country of the barbarians, installed throughout the entire land. THEODOSIUS carries out the difficult mission successfully.
- 383 MAGNUS MAXIMUS denudes Britain of its garrison to seize the throne of the Empire from VALENTINIAN's son GRATIAN, who is murdered. Britain, left defenceless, once more succumbs to barbarian hordes. Hadrian's Wall makes its last defence.
- 393 STILICHO, regent in Britain of the Emperor THEODOSIUS, son of COUNT THEODOSIUS, once again liberates Britain.
- 399 STILICHO completes the war of liberation. He enlists the aid of CUNEDDA, a British chieftain, to help in the work of pacification.
- 401 STILICHO is forced to withdraw troops from Britain to help protect the Empire from the advancing Goths.
- 403 ALARIC the Goth is defeated at Verona. RADAGAISUS begins a fresh Gothic invasion.
- 405 The troops in Britain, in despair, set up successive usurpers called MARCUS, GRATIAN and finally CONSTANTINE to provide for the defence of the country.
- 410 The Emperor HONORIUS tells the people of Britain that Rome is no longer in a position to come to their aid. STILICHO has been murdered, and ALARIC is marching on Rome. HONORIUS's rescript marks the end of the Roman occupation of Britain, though at the time both Rome and Britain believed that their fortunes would sooner or later be reunited.
- 430 By this date the government of Britain is being decisively taken over by the Saxons.
- 446. The British make a last appeal to AETIUS. The appeal is rejected. The bond with Rome is completely sundered.

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